Santa Clara Valley Water District

Fiscal Year 2014-18
Capital Improvement Plan

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May 14, 2013

Santa Clara Valley
Water District

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Overview

OVERVIEW

The Santa Clara Valley Water District's (District) Fiscal Year 2014-18 Five-Year Capital Improvement Program (CIP) is a projection of the District's capital funding for planned capital projects from Fiscal Year 2013/14 through Fiscal Year 2017/18. The purpose of the CIP is to document planned District projects to help integrate District work with the larger community by aligning District planning with other local agency planning efforts.

The District's CIP is developed following the guidelines of Government Code (GC) § 65403 which governs the development and annual review of Capital Improvement Programs developed by special districts in the State of California. State law requires that the program be reviewed and updated annually. It also requires circulation of the document to all agencies having land use authority within the District boundaries prior to adoption of the program. This document is intended to provide the information necessary to facilitate planning and construction of water related infrasructure to meet the needs of Santa Clara County.

SANTA CLARA VALLEY WATER DISTRICT

Mission

The mission of the district is to provide for a healthy, safe and enhanced quality of living in Santa Clara County through watershed stewardship and comprehensive management of water resources in a practical, cost-effective and environmentally sensitive manner for current and future generations.

The CIP is prepared in accordance with the guidelines established by the Government Finance Officer Association (GFOA). Capital projects in this document are defined by both the accounting criteria for capital investment and Public Contract Code definition of public works. They exceed $50,000 in cost, have long-term life spans and are generally nonrecurring. They usually fall within one of the following six categories.

1. Acquisition of land for public purpose
2. Construction of a significant facility, i.e. a flood protection facility, a water treatment facility, or a building
3. Addition to or expansion of an existing facility
4. Nonrecurring rehabilitation or major repair to all or part of a facility provided the total cost is more than $50,000
5. Specific planning, engineering study, or design work related to an individual project which falls within the above categories
6. Significant one-time investment in tangible goods of any nature, the benefit of which will accrue over several years. Examples include items such as large initial investments or improvements in technology or the purchase of a new telephone system.

The CIP includes 5 Small Capital Improvement Projects in the various cost centers. These projects will be ongoing and will be used to fund multiple small projects to undertake repairs, replacements, and minor modifications to existing water utility or campus facilities. Small Capital Improvements generally meet the following criteria:

1. Project cost is less than $1.5 million
2. Project can be completed within 2 fiscal years
3. Rights-of-Way acquisition is not required.

The proposed funding for the Water Supply Small Capital Improvement projects is anticipated to vary each year based on the work identified in the Water Utility Asset Management Plan. The Almaden Campus Small Capital Improvements Project is funded at a flat rate of $2 million per year. Unspent funds in these projects will not carry forward from previous years.

There are some miscellaneous capital expenditures incurred by the District that are not captured in the CIP. These capital expenditures include certain components of water purchases, indirect costs to manage and train staff that are fully engaged in capital work, and routine replacement of computers, vehicles and large equipment.

ALIGNMENT WITH ENDS POLICIES

The District plans, manages and carries out capital improvements to comply with the Ends Policies and Executive Limitations established by its Board of Directors. Under the District's Policy Governance Model, Ends Policies describe the outcomes or results to be achieved by District staff. Balancing the Ends Policies are the Executive Limitations, which set limits on staff activities in fulfilling the Ends.

Program plans or master plans are developed to achieve the results established by the Ends Policies and to further define the goals and objectives of each Ends Policy. The Board either formally approves the plans or provides direction to staff, confirming the goals and objectives. These plans then become the basis for staff to propose and develop individual capital projects. Alignment of the CIP with program or master plans provides a direct link to Ends Policies and ensures the District's long-term capital investments are planned and executed according to the Board's priorities. Three Ends Policies directly drive program or master plans and the types of capital improvements described in the CIP.

- Ends Policy E-2 "There is a reliable, clean water supply for current and future generations.
- Ends Policy E-3 "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations."
  - E-3.1 "Provide natural flood protection for residents, businesses, and visitors"
  - E-3.2 "Reduced potential for flood damages"
- Ends Policy E-4 "There is water resources stewardship to protect and enhance watersheds and natural resources and to improve the quality of life in Santa Clara County."

(See flowchart "CIP Process Alignment with Ends Policies" on page I-5)

CIP PLANNING PROCESS

The District conducts an annual planning process for its Capital Improvement Program. The purpose of the planning process is to ensure the capital projects included in the CIP:

- meet the Board's priorities and contribute to the objectives of the District's various programs
- have identified funding for the duration of the projects
- are coordinated with the local jurisdiction's General Plans.

The CIP planning process is carried out in accordance with the following Executive Limitations.

- Executive Limitation EL-4.3.1., "A BAO shall produce an annual Rolling Five-Year Capital Improvement Plan with the first year serving as the adopted capital budget and the remaining years in place as a projected capital funding plan."
- Executive Limitation EL-4.4.1., "A BAO shall demonstrate to the Board the planned expenditures for the identified and selected capital projects in the Rolling Five-Year Capital Improvement Plan are alligned with the Board's capital priorities."

The annual CIP process is the responsibility of the CIP Committee comprised of division managers, with the responsibility to initiate or implement capital projects. The detailed process is a documented ISO procedure. It includes the following key steps:

- Management review and approval, to ensure staff proposed projects are aligned with Board policies and approved program plans
- Validation of projects to ensure there is a business case for doing the project and that a capital investment is the best solution
- Prioritization of all projects, including continuing and newly proposed projects, to ensure the projects in the CIP reflect Board priorities
- Financial analysis, to determine the capacity of the District's capital funding sources to fund the proposed capital projects

- Outreach to local jurisdictions within Santa Clara County, to coordinate the District's Capital Improvement Program with their General Plans
- Board review and direction at appropriate steps, to ensure the CIP reflects Board policies and priorities
- Board adoption of the CIP plan

The annual CIP planning process takes approximately 10 months to complete. The process starts with collecting information on proposed new capital projects in July, followed by preliminary scoping, priority and financial analyses to produce a Draft CIP in February. The Draft CIP serves as a multi-year plan, together with other long-term planning efforts of the District, is the basis for the budget for the following fiscal year. This Draft CIP plan is also reviewed by local jurisdictions for consistency with their General Plans. While the CIP is being reviewed by the cities and County the budget is being reviewed and finalized. The Board concludes the outreach on the CIP with a public hearing. The first year of the CIP is reconciled with the budget and the two documents are presented to the board for formal adoption in May.

Board Direction and CIP Outreach

The Board has many opportunities each year to provide direction on projects contained in the Capital Improvement Program. The CIP is developed in parallel with the budget and the water rates. It is presented to the Board on three separate occasions for review and input. Early in the process the criteria and project list are presented to the board so they can provide direction to staff, ensuring that the document is developed in accordance with board priorities. The direction received is used to develop the Draft CIP which is reviewed and accepted by the Board before staff is authorized to release the document for public review. The CIP is adopted by the Board in May following a public hearing.

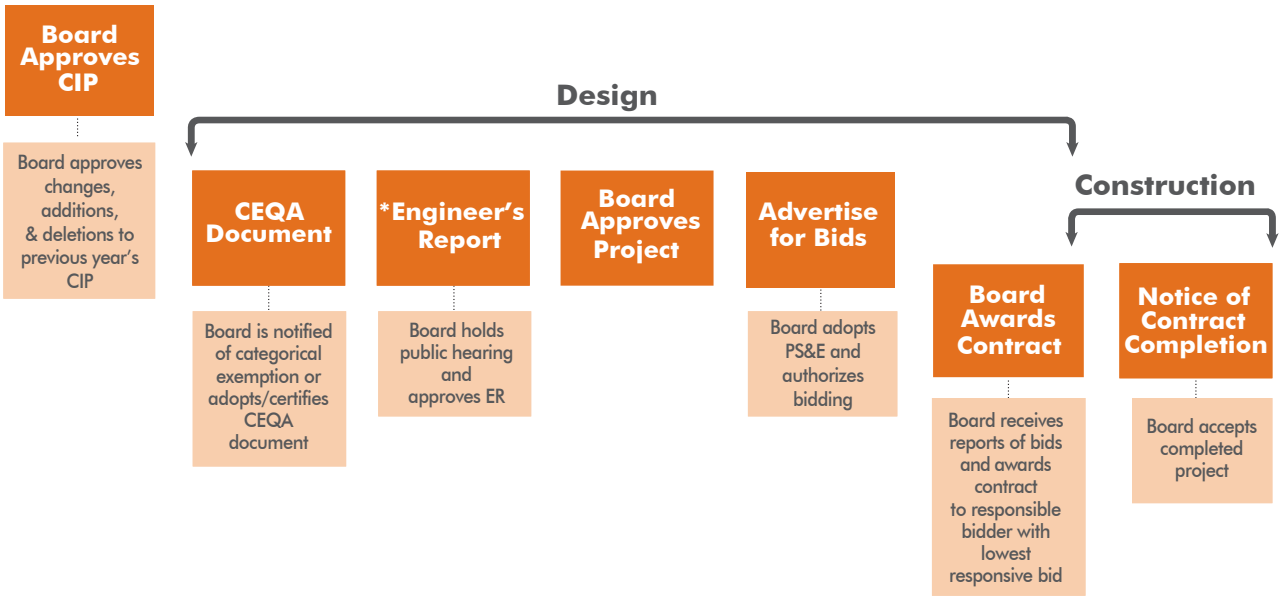
On January 8, 2013 the FY 2014-18 project list and prioritization criteria were reviewed and endorsed by the Board. The following are highlights of changes from the previous year that were approved as the basis for the FY 2014-18 CIP:

- To fully fund the Water Supply projects in the FY 2014-18 CIP an increase in the groundwater production charges of 9.3% in Zone W-2 (North County) and 3.5% in Zone W-5 (South County) will be required in FY 2013/14.
- Higher than projectd property tax revenue improved the financial outlook for the Watershed Stream Stewardship Fund and General Fund.
- The Safe, Clean Water program, approved by the voters in November 2012, was incorporated into the CIP. Beginning in July 2013 the SCW parcel tax will provide approximately $458 million in funding to 15 capital projects over 15 years.
- The Stevens Creek Dam Seismic Retrofit Project has been added to the CIP to comply with the Division of Safety of Dams (DSOD) requirements. The project is being initiated in fiscal year 2013, will be completed by fiscal year 2016, and is estimated to cost $10 million.
- Three other new projects, Fluoridation at the Water Treatment Plants, Palo Alto Flood Basin Structure Improvements, and PeopleSoft System Upgrade and Expansion have been added to the CIP with an estimated cost of $19.5 million.

Overview

Each project in the CIP goes through a planning phase, design phase and construction phase. The Board may determine to not implement a project based on various considerations such as financial constraints, environmental impacts or community desire during a project's planning or design phases. Approval of a capital project by the Board occurs at the end of the design phase when the Board approves the plans and specifications to solicit bids for construction of the project.

OPPORTUNITIES FOR BOARD DIRECTION ON CAPITAL PROJECTS



** Engineer's Report is required only on projects with zone funding.*

Construction of the storage tank at the Silicon Valley Advanced Water Purification Center

CIP PROCESS ALIGNMENT WITH ENDS POLICIES

Ends Policy E-2
There is a reliable, clean water supply for current and future generations.

→

Program Plans or Master Plans
- **1990** SCVWD Action Plan for reducing disinfection by-product (Board approved)
- Integrated Water Resource Plan (Board Work Studies)
- **1999** Producer-Wholesaler Agreement for Supply of Recycled Water between SCRWA and the District (Board approved)
- **2004** Santa Clara Valley Water District Asset Management Program Implementation Plan
- **2005** Urban Water Management Plan (Board approved)
- **2005** Dam Safety Plan
- **2005** Water Infrastructure Reliability Plan
- **2006** South County Water Recycling MasterPlan (Board approved)
- **2012** Safe, Clean Water Program (Board/Voter approved)
- **2012** Water Supply Infrastructure Master Plan (Board approved)

→

FY 2014-2018 CIP
- **33 - Water Supply Capital Projects**

Ends Policy E-3.1 & E-3.2
Provide natural flood protection for residents, businesses, and visitors. Reduce potential for flood damages.

→

Program Plans or Master Plans
- **1982, 1986, 1990** Benefit Assessment Program (Board approved)
- **2000** Clean, Safe Creek Program (Board/Voter approved)
- **2001** Stream Maintenance Program (Board approved) Annual Watershed Facility Inspection Program (for all watersheds)
- Feasibility Cost Sharing Agreements with the US Army Corps of Engineers
- **2012** Safe, Clean Water Program (Board/Voter approved)

→

FY 2014-2018 CIP
- **17 - Flood Protection Capital Projects**

Ends Policy E-4
There is water resources stewardship to protect and enhance watersheds and natural resources and to improve the quality of life in Santa Clara County.

→

Program Plans or Master Plans
- CEQA commitments
- Regulatory permitting commitments
- Enhancement Program per Clean Safe Creeks Program (Board/Voter approved)
- Enhancement opportunities determined appropriate by the Board
  - Fish and Aquatic Habitat Collaborative Effort
  - Natural Resource Damage Assessment
  - Other
- Safe, Clean Water Program (Board/Voter approved)

→

FY 2014-2018 CIP
- **9 - Water Resources Stewardship Projects**

Strategic Support

→

Program Plans or Master Plans
- **1990** Facilities Master Plan - Site Analysis Report (Board approved)
- **2005** Needs Assessment and Plan Feasibility Study
- **2012** Campus Master Plan (Board approved)

→

FY 2014-2018 CIP
- **2 - Buildings and Grounds Capital Projects**

Strategic Support

→

Program Plans or Master Plans
- **2001** Information System Master Plan
- **2003** Enterprise-wide Master Communication Plan
- **2012** Information Systems Master Plan

→

FY 2014-2018 CIP
- **2 - Information Technology Capital Projects**

CIP Prioritization and Financial Analyses

FISCAL YEAR 2014-18 CIP SUMMARY

The recommended CIP for FY 2014-18 includes 63 priority projects to implement the goals and objectives of the District's program plans and master plans. These projects are grouped into five types of improvements.

- *Water Supply Capital Improvements*
  33 projects contributing to Ends Policy E-2
- *Flood Protection Capital Improvements*
  17 projects contributing to Ends Policy E-3
- *Water Resources Stewardship Capital Improvements*
  9 projects contributing to Ends Policy E-4
- *Buildings and Grounds Capital Improvements*
  2 project supporting District efforts to achieve the Ends Policies
- *Information Technology Capital Improvements*
  2 projects supporting District efforts to achieve the Ends Policies

Each of the 63 projects in the CIP has an identified funding source based on the type of improvement or function of the project.

The principal sources of revenue for the District are property taxes, a special parcel tax and water production charges for use of groundwater, treated water, and surface water. These revenues are organized into seven funds. Six of the seven funds have a specific purpose and only finance the operational and capital expenditures related to that purpose. In 2008 the Board decided to combine the individual watershed funds into a county-wide watershed and stream stewardship fund to send the message that the watershed activities are managed for the benefit of the county. This also streamlines most tracking and accounting activities for staff. The District continues to receive a small amount of revenue from benefit assessments that were approved by voters in the 80s and 90s. These funds are dedicated to specific watersheds and the accounting practices to ensure that they are spent and accounted for appropriately have been kept in place. As shown in the chart below, four of the seven funds are used to finance the five types of capital improvements in the CIP.

In November 2012 the voter overwhelmingly approved the Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water). This program replaces the Clean, Safe Creeks Program that would sunset in 2016. Safe, Clean Water has an expanded focus that includes funding for important Water Utility projects as well as additional funding for Flood Protection and Stream Stewardship projects. The Safe, Clean Water program will provide a total of $548 million of special parcel tax revenue for operations and capital projects.

The District aggressively persues external funding to supplement its principal revenue when practical. In recent years District projects benefited from $43.4 million in American Recovery and Reinvestment Act (ARRA) funding. A number of District projects are receiving State funding through grants from the Department of Water Resources (DWR) either directly or through local partner agencies.

- $5.4 million for Silicon Valley Advanced Water Purification Center from DWR
- $25 million for Lower Silver Creek from DWR
- $7.5 million for San Francisquito Creek through the Joint Powers Authority
- $0.4 million for San Francisco Bay Shoreline from DWR

DISTRICT PRIORITIES	District Funds			
Type of Improvement	Water Utility Enterprise Fund	Watershed Stream Stewardship Fund	General Fund	Safe, Clean Water Fund
Water Supply	●			●
Flood Protection		●		●
Water Resources Stewardship	●	●		●
Buildings and Grounds			●	
Information Technology	●		●	

This chart identifies which types of improvement are associated with each of the District's four capital funds.

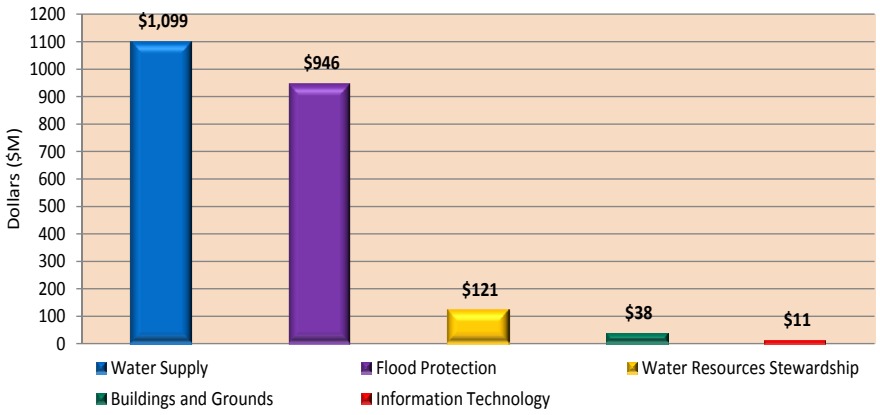
Overview

The estimated total funding required to implement the 63 projects defined in the CIP is $2.7 billion. The District has been and continues to be successful in leveraging funding for its capital projects through partnerships with federal, state, and local agencies. Of the $2.7 billion total funding, $757 million is expected from the District's various partners, such as the U.S. Army Corps of Engineers (USACE), and $1.963 billion from the District. A list of projects that are funded cooperatively with the District's partners is summarized in Appendix C. Funding from partners for the cooperative capital projects generally come in two ways:

- Funds that are made available by the partners when needed, or
- Funds that are reimbursed by the partners after the District advances the needed funds.

Of the $757 million that is expected from the District's partners, $252 million is advanced by the District and reimbursed later. This $252 million is included in the CIP, and increases the District's total funding requirement from $1.963 billion to $2.216 billion, to ensure that the District has adequate funding to advance the reimbursement.

CIP Funding by Type of Improvement

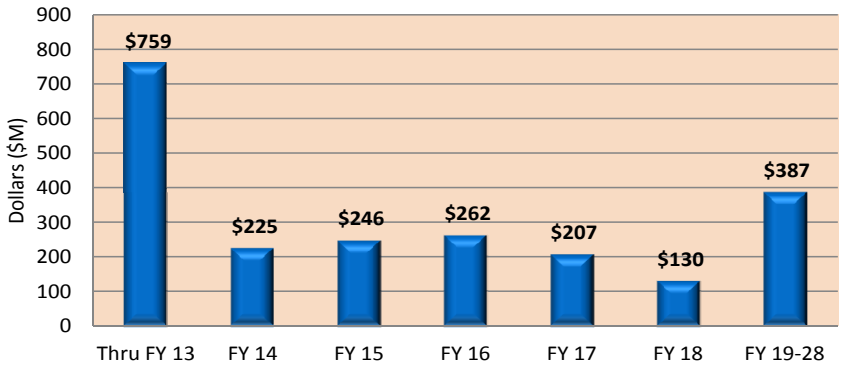


The chart above shows the distribution by type of improvement, of the $2.216 billion total CIP funding as planned in the FY 2014-18 CIP.

The chart above shows how the $2.216 billion to implement the 63 projects is allocated to each of the five Types of Improvements.

Of the $2.216 billion in total funding for the 63 projects identified in the CIP, the Board has appropriated $759 million in prior years (through June 30, 2013 the end of Fiscal Year 2012/13). This year's CIP process identified additional funding needs of $1.457 billion to complete the projects in the CIP, with $225 million allocated in Fiscal Year 2013/14 and a total of $1.232 billion proposed for future years. The table shown on page I-8 breaks down the fiscal year total by the five types of improvement and by applicable funding sources.

CIP Funding Schedule



The chart above shows how the $2.216 billion is distributed by fiscal year.

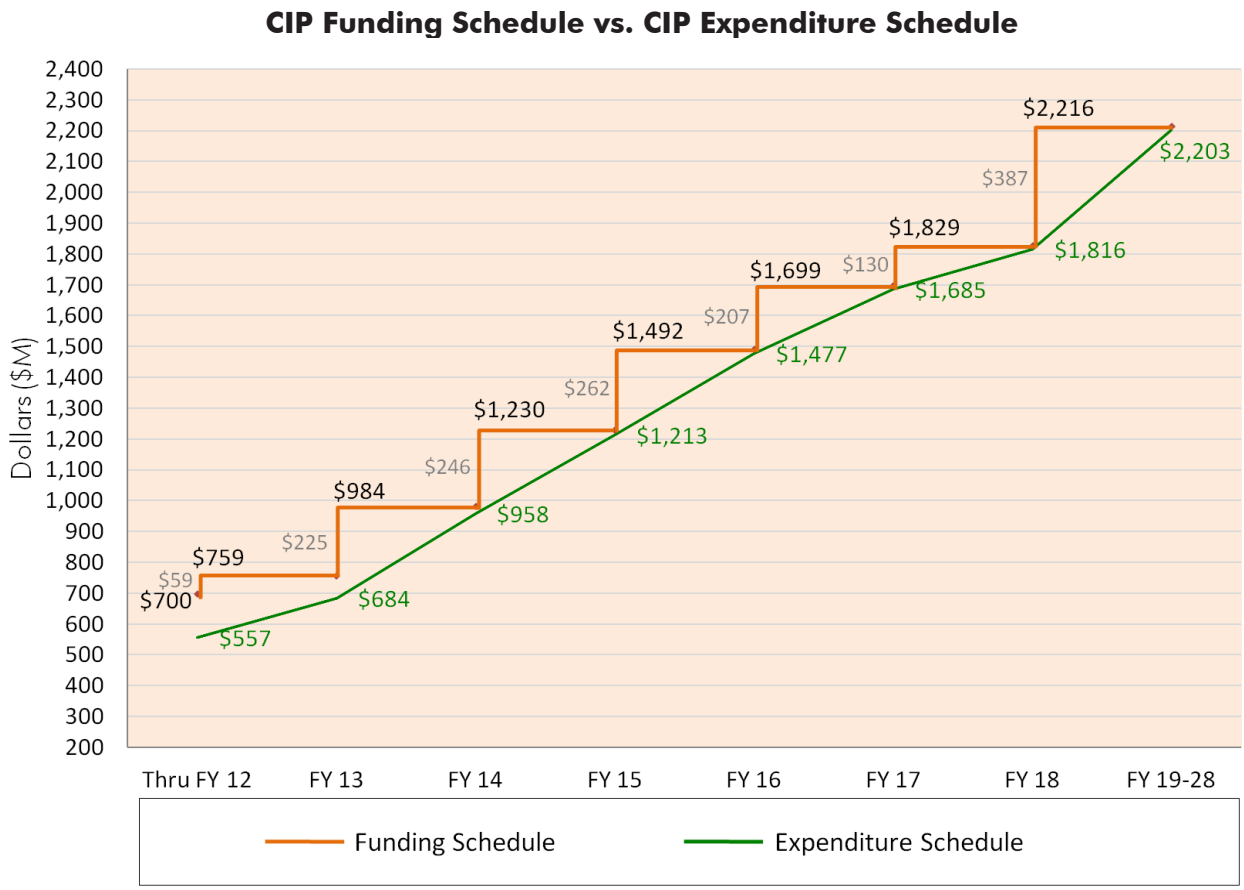
CIP Funding Schedule by Type of Improvement and Funding Sources ($K)

	Through FY12	FY13	FY13 Unspent	FY14	FY15	FY16	FY17	FY18	FY19-28	TOTAL
WATER SUPPLY										
Water Utility Enterprise Fund	172,837	38,194	14,977	82,535	123,047	152,731	163,819	87,764	184,506	1,005,433
Safe, Clean Water and Natural Flood Protection Fund	-	-	-	-	573	651	6,832	243	85,655	93,954
Water Supply Total	172,837	38,194	14,977	82,535	123,620	153,382	170,651	88,007	270,161	1,099,387
FLOOD PROTECTION										
Watershed Stream Stewardship Fund	288,487	4,504	11,001	12,218	10,571	16,145	1,111	754	242	334,032
Safe, Clean Water and Natural Flood Protection Fund	207,580	12,629	42,291	116,919	86,786	77,061	22,591	23,966	64,710	612,242
Flood Protection Total	496,067	17,133	53,292	129,137	97,357	93,206	23,702	24,720	64,952	946,274
WATER RESOURCES STEWARDSHIP										
Water Utility Enterprise Fund	9,403	35	3,143	115	577	1,853	3,283	649	8,102	24,017
Watershed Stream Stewardship Fund	16,573	881	1,233	4,908	11,686	5,804	1,130	868	8,368	50,219
Safe, Clean Water and Natural Flood Protection Fund	316	499	451	188	2,177	4,547	4,710	12,734	21,580	46,751
Mitigation Total	26,292	1,415	4,827	5,211	14,440	12,204	9,123	14,251	38,051	120,987
BUILDINGS AND GROUNDS										
General Fund	-	2,700	-	3,640	9,901	2,784	2,340	2,433	13,707	37,505
Buildings and Grounds Total	-	2,700	-	3,640	9,901	2,784	2,340	2,433	13,707	37,505
INFORMATION TECHNOLOGY										
Water Utility Enterprise Fund	4,441	-	940	22	-	-	-	-	-	4,463
General Fund	-	-	-	4,099	1,066	806	732	302	-	7,005
Information Technology Total	4,441	-	940	4,121	1,066	806	732	302	-	11,468
TOTAL	699,637	59,442	74,036	224,644	246,384	262,382	206,548	129,713	386,871	2,215,621
CUMULATIVE TOTAL	699,637	759,079		983,723	1,230,107	1,492,489	1,699,037	1,828,750	2,215,621	

FY 2012/13 Funds to be reappropriated

Overview

As shown in the table, CIP Funding Schedule by Type of Improvement and Funding Sources (on the previous page): approximately $74 million of the already appropriated $759 million is not spent and is reappropriated to Fiscal Year 2013/14 for continued use in those same projects in amounts consistent with the project expenditure schedule for Fiscal Year 2013/14. The following chart explains the relationship between the CIP Funding Schedule and Expenditure Schedule.



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Water Supply Capital Improvements

WATER SUPPLY OVERVIEW

The District manages and operates a complex and integrated water supply infrastructure, including storage, transmission, treatment, and recycled water facilities, to meet the Board's Ends Policy E–2, "There is a reliable, clean water supply for current and future generations."

Storage Facilities

- 10 surface reservoirs
- 393 acres of recharge ponds
- 76 miles of in-stream recharge
- Ground water basins

Transmission Facilities

- 142 miles of pipelines
- 3 pump stations

Treatment Facilities

- 3 treatment plants

Recycled Water Facilities

- Silicon Valley Advanced Water Purification Center
- South County Recycled Water Distribution System

Planning, design and construction of the above facilities took decades of effort. Beginning in the 1930s, reservoirs and recharge ponds were built to halt depletion of the ground water basin and subsidence, followed by pipelines and treatment plants to bring in state and federal water to meet growing water demands in the County.

In the early 1990s, the District embarked on new and challenging capital improvements to upgrade its three drinking water treatment plants in order to meet new Environmental Protection Agency rules for improved water quality required by 1996 amendments to the Safe Drinking Water Act. Fifteen years of effort and capital funding brought the upgrades at Penitencia and Santa Teresa Water Treatment Plants to completion. Delivery of ozonated water produced at these two treatment plants began in 2006.

Water delivered from the Rinconada plant continues to meet the stricter water quality standards even though the plant was built in the 1960's and is showing its age. The Rinconada Water Treatment Plant (RWTP) Reliability Improvement Project will provide some major improvements for future reliability. The facility renewal program (FRP) for RWTP that was started in FY 2008/09 is continuing with one capital project and $21 million planned expenditures in FY 2013/14. The CIP includes a total investment of $232 million for improvements at RWTP.

With a significant portion of the Water Supply infrastructure approaching forty to fifty years of age, maintaining and upgrading the existing infrastructure to ensure each facility functions as intended for its useful life became the focus of the Water Supply Capital Improvement Program in recent years, as shown in the CIP.

The District owns and operates ten major dams. While these dams provide water conservation, flood management, recreation, and environmental flow benefits, there are consequences and costs for dam ownership. Knowledge of seismic stability design and construction was very rudimentary during the design and construction of District dams in the 1930's and 50's. Both liquefaction of dam embankments and foundations and embankment stability is critical for seismic stability. Several of the District reservoirs have operating restrictions imposed by the Department of Safety of Dams (DSOD) while an engineering analysis of how the District's dams would perform under a major seismic event is completed and appropriate corrective actions are implemented.

On November 26, 2010 the Board was informed that Anderson Dam will require a seismic retrofit and the operating restriction was increased to 45 feet below the crest of the dam. Since this briefing, the consultant has determind that a magnitude 7.2 Maximum Credible Earthquake on nearby Calaveras Fault could cause a deformation (slumping) of the dam crest by 25 feet. The Anderson Dam Seismic Retrofit Project ($185 million) was initiated in January 2011.

The District completed a seismic stability evaluation of Almaden, Calero, and Guadalupe Dams in late 2010. Almaden Dam was found to be seismically stable; however both Calero and Guadalupe Dams will require seismic retrofitting to meet DSOD performance criteria. A project was initiate in fiscal year 2013 to address the Calero and Guadalupe Dams retrofit needs. A separate capital project to address outlet and spillway improvements at Almaden Dam is continuing. Most recently, seismic stability evaluations were conducted at Lenihan and Stevens Creek Dams and a new project to correct the deficiencies at Stevens Creek was initiated in February 2013. Lenihan was found to be seismically stable.

Major Capital Improvements Identified in CIP

Storage:

- Anderson Dam Seismic Retrofit
- Calero and Guadalupe Dams Seismic Retrofits
- Pacheco Pumping Plant ASD Replacement
- TC HCP Implementation Fund

Transmission:

- 5-Year Pipeline Rehabilitation
- IRP2 Additional Line Valves

Treatment:

- Infrastructure Reliability
- IRP2 WTP Operations Buildings Seismic Retrofit
- RWTP FRP Residuals Management Modifications
- RWTP Reliability Improvement

Recycled Water:

- Silicon Valley Advanced Water Purification Center
- South County Recycled Water Pipeline

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to ensure that the new water supply projects proposed to be added to the Fiscal Year 2013/14 CIP reflect the Board's priorities. The priority criteria used to evaluate these projects is included in Appendix A.

A financial analysis of the Water Utility Enterprise Fund, the funding source for water supply capital improvements, was performed to determine the limitations to funding the projects proposed for the Fiscal Year 2013/14 capital program. Results of this year's prioritization process and financial analysis are summarized in Appendix B.

Based on the feedback from the FY 2006-07 CIP and Board direction, a concerted effort was made to develop a multi-year water charge structure that would support the priority work of the water utility business. Staff analyzed both immediate requirements and anticipated future needs to support operations and the continued appropriations for capital investment needed to maintain infrastructure and comply with water quality regulations. Each year staff reviews Board priorities, the financial needs of the water utility enterprise fund, current political and economic factors and updates the multi-year structure. The rate structure for the first year is recommended to the Board for adoption during the annual rate setting process.

While the District has one Water Utility fund, the District has two zones of benefit for the purposes of setting groundwater production charges. The North County Zone is very different from the South County zone in that the water infrastructure is substantially separate and distinct with an entirely different cost of providing service. For example the North zone overlays the Santa Clara groundwater subbasin and is much more densely populated requiring a large amount of imported water from outside the county to provide a reliable water supply. To receive, filter and distribute the imported water, the District chose to build 3 water treatment plants and a network of raw water and treated water distribution pipelines many decades ago. The South zone on the other hand overlays the Coyote and Llagas groundwater subbasins and is more sparsely populated. South County relies primarily on groundwater to serve roughly 50% agricultural and 50% non-agricultural water needs. A small amount of

recycled water is served in the Gilroy area. No treated water is served in South County. A small amount of imported water is used to recharge the groundwater subbasins in the South County. The groundwater subbasins have the ability to absorb the recharge and remain healthy at current water usage levels unlike the North County where several sections of the groundwater basin are very sensitive, which is the main reason for building the treatment plant system long ago.

To fully fund the Water Supply projects in the FY 2014-18 CIP an increase in the groundwater production charges of 9.3% in Zone W-2 (North County) and 3.5% in Zone W-5 (South County) will be required in FY 2013/14. Preliminary projection indicate the need for annual rate increases in subsequent years ranging from 9% to 10% for North County and 3% to 4% for South County.

The majority of capital projects included in the 5-Year CIP are related to asset management which replaces aging equipment and facilities, or infrastructure reliability, which protects the county's baseline water supply. The Water Supply and Infrastructure Master Plan was completed and adopted by the Board in 2012. It recommends: 1) investing in existing supplies and insfrastructure; 2) optimizing the use of existing supplies and infrastructure; and 3) increasing recycling and conservation.

The District is currently engaged in several critical studies related to understanding the conditions of various existing water supply facilities and meeting future water supply needs of the county including South Bay Water Recycling Strategic Master Plan, San Luis Low Point Improvement Project, and collaborating with Sunnyvale on their Recycled Water Master Plan. These studies will likely identify a number of new capital projects with significant capital investments. Following is a preliminary list of projects identified by these studies:

- San Luis Low Point Solution ($141M)
- Construct Diversion to Maximize Recharge Capability at Church Avenue ($4M)
- Expansion of recycled water facilities in North County (South Bay Water Recycling and Sunnyvale Areas)

Water Supply Capital Improvements

The following table is a project funding schedule for water supply capital improvements resulting from this year's priority process and financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2012/13.

Water Supply Capital Improvements

Project Number	PROJECT NAME	Through FY12	FY13	FY13 Unspent	FY14	FY15	FY16	FY17	FY18	FY19-28	TOTAL
	STORAGE FACILITY										
91854001	Almaden Dam Improvements	2,353	2,012	3	1,782	11,856	201	-	-	-	18,204
91864005s	Anderson Dam Seismic Retrofit	9,474	1,007	979	12,620	15,272	70,248	70,987	1,217	73,135	253,960
91084020	Calero and Guadalupe Dams Seismic Retrofits	-	2,170	645	682	6,399	2,944	13,921	55,455	11,224	92,795
91084019	Dam Safety Program Seismic Stability	9,485	213	11	2,389	779	-	-	-	-	12,866
91954001	Pacheco Pumping Plant ASD Replacement	18,286	1,080	-	286	-	-	-	-	-	19,652
91214007	San Luis Reservoir Low Point Improvement	15,235	12	1,320	-	-	-	-	-	-	15,247
91214010s	Small Capital Improvements, San Felipe Reach 1-3	n/a	1,639	-	4,659	737	830	5,528	608	2,457	16,458
91914001	Stevens Creek Dam Seismic Retrofit	-	400	-	1,605	8,009	506	-	-	-	10,520
92C40357	TC HCP Implementation Fund	0	-	-	-	-	1,668	4,651	4,277	140,317	150,913
	TRANSMISSION FACILITY										
95084001	5-Year Pipeline Rehabilitation	0	4,133	-	2,826	8,551	3,935	4,846	-	-	24,291
92404003	Alamitos Diversion Dam Improvements	2,962	-	2,125	-	-	-	-	375	-	3,337
92484003	Coyote Diversion Dam Improvements	709	-	389	-	-	-	625	1,218	-	2,552
26C40349	IRP2 Additional Line Valves	-	-	-	-	-	-	-	-	12,900	12,900
92534003	Kirk Diversion Dam & Fish Screen Improvements	3,196	-	56	395	-	-	-	-	-	3,591
26C40350s	Main & Madrone Pipelines Restoration	-	-	-	-	573	651	10,101	243	-	11,568
92144001	Pacheco/Santa Clara Conduit Right of Way Acquisition	853	702	1	1,009	292	-	-	-	-	2,856
94384002s	Penitencia Delivery Main/Force Main Seismic Retrofit	-	1,020	-	761	5,831	288	-	-	-	7,900
92374005	SCADA Remote Architecture & Communications Upgrade	-	-	-	370	389	795	758	776	2,918	6,006
92764009	Small Capital Improvements, Raw Water Transmission	n/a	719	-	43	381	199	-	129	169	1,640
94764006	Small Capital Improvements, Treated Water Transmission	n/a	998	-	-	56	-	-	-	95	1,149
	TREATMENT FACILITY										
93084011	Fluoridation at WTPs	-	-	-	357	782	5,073	684	-	-	6,896
93504001	Infrastructure Reliability	188	115	87	1,314	823	1,097	1,141	5,240	11,225	21,143
93764003	IRP2 WTP Ops Bldgs Seismic Retrofit	4,314	-	517	9,478	1,609	214	-	-	-	15,615
93234043	PWTP Clearwell Recoating & Repair	1,408	186	245	-	2,821	88	-	-	-	4,503
93234042	PWTP Water Pumps Modification	2,745	-	1,880	291	364	119	-	-	-	3,519
93294051	RWTP FRP Residuals Management Modifications	3,580	311	62	21,060	1,503	349	-	-	-	26,803
93294057	RWTP Reliability Improvement	2,777	8,406	387	7,923	50,659	54,639	54,687	16,868	152	196,111
93294056	RWTP Treated Water Valves Upgrade	1,128	700	145	5,972	873	163	-	-	-	8,836
93764004	Small Capital Improvements, Water Treatment	n/a	1,065	-	3,299	3,435	1,883	1,903	1,601	15,569	28,755
93284030	STWTP Incompatible Materials	9,398	3,330	-	1,183	163	-	-	-	-	14,074
94084005	Water Protection	7,730	1,940	407	175	-	-	-	-	-	9,845
	RECYCLED WATER FACILITY										
91184008	Silicon Valley Advanced Water Purification Center	62,891	5,083	663	699	-	-	-	-	-	68,673
91094007s	South County Recycled Water Pipeline	14,125	953	5,055	1,357	1,463	7,492	819	-	-	26,209
	TOTAL	172,837	38,194	14,977	82,535	123,620	153,382	170,651	88,007	270,161	1,099,387

FY 2012/13 Funds to be reappropriated

Water Supply Capital Improvements

The following table shows funding requirements from each funding source for water supply capital.

Water Supply - Funding Source ($K)

Fund Number	PROJECT NAME	Through FY12	FY13	FY13 Unspent	FY14	FY15	FY16	FY17	FY18	FY19-28	TOTAL
61	Water Utility Enterprise Fund	172,837	38,194	14,977	82,535	123,047	152,731	163,819	87,764	184,506	1,005,433
26	Safe, Clean Water and Natural Flood Protection Fund	-	-	-	-	573	651	6,832	243	85,655	93,954
	TOTAL	172,837	38,194	14,977	82,535	123,620	153,382	170,651	88,007	270,161	1,099,387

FY 2012/13 Funds to be reappropriated

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Project	**Almaden Dam Improvements**
Program	Water Supply – Storage
Priority No.	40
Project No.	91854001
District Contact	Katherine Oven koven@valleywater.org

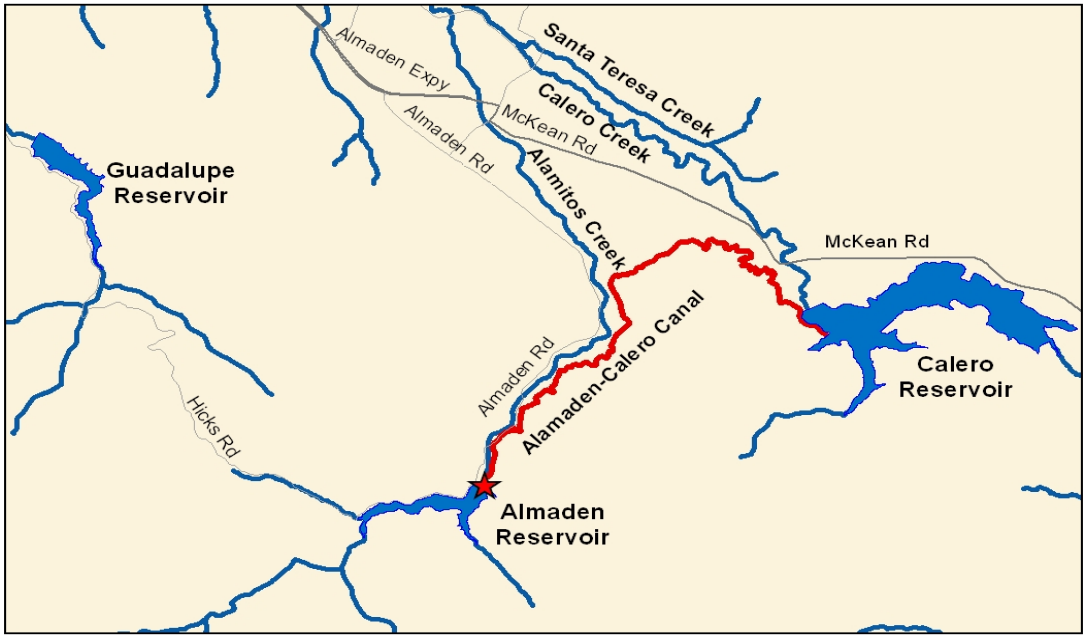
Aerial view of Almaden Dam and spillway, with a portion of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Almaden Dam Outlet Works to accomplish the following objectives:

- Modify or construct a new intake structure, capable of releasing 246 cfs of water without flushing of sediments through the outlet works.
- Correct existing problems with the outlet energy dissipation structure, piping and valves.
- Restore operational capacity to the Almaden-Calero Canal and stabilize and improve maintenance access.

PROJECT LOCATION

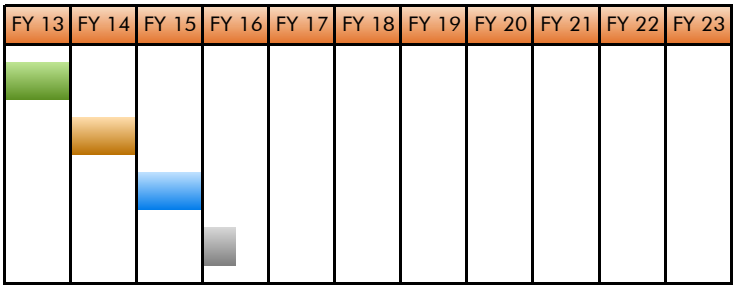


Project Location

SCHEDULE & STATUS

July 1995 to December 2018

Phase	Cost
Plan	4,243
Design	1,885
Construct	11,342
Closeout	179
	17,649



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
91854001-Almaden Dam Improvements	2,253	2,109	1,785	11,342	179	0	0	0	17,668
with inflation	2,253	2,109	1,785	11,856	201	0	0	0	18,204

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
91854001-Almaden Dam Improvements	2,353	2,012	3	1,782	11,856	201	0	0	0	18,204

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	18,204
Other Funding Source	0
Total	18,204

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately $2,000 per year, beginning in FY 2020. Manually flushing the control valves during the winter months to remove silt will no longer be required.

USEFUL LIFE: 50+ Years

Project	**Anderson Dam Seismic Retrofit**
Program	Water Supply – Storage
Priority No.	97
Project No.	91864005s
District Contact	Katherine Oven koven@valleywater.org

Aerial view of Anderson Dam and spillway, with a portion of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs seismic retrofit or replacement of outlet works at Anderson Dam, pending completion of a field investigation that will determine whether the Coyote Fault is determined to be "active." Seismic stability improvements will accomplish the following objectives:

- Resolve seismic stability deficiencies to ensure public safety.
- Restore lost reservoir storage capacity resulting from the operational restriction issued by Division of Safety of Dams (DSOD).
- Resolve the DSOD/FERC (Federal Energy Regulatory Commission) requirements in a timely manner.

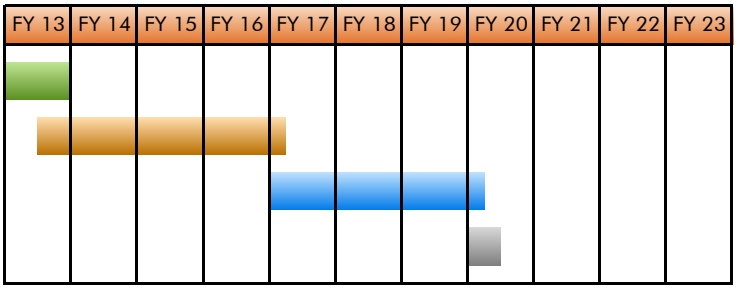
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

January 2011 to October 2019

Phase	Cost
Plan	10,547
Design	15,223
Construct	144,100
Closeout	200
	170,070



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
91864005-Anderson Dam Seismic Retrofit	8,626	876	13,599	14,120	66,100	65,500	1,000	300	170,121
with inflation	8,626	876	13,599	15,272	70,248	70,987	1,217	380	181,204
26C40365-Anderson Dam Seismic Retrofit	0	0	0	0	0	0	0	72,755	72,755
with inflation	0	0	0	0	0	0	0	72,755	72,755
TOTAL	8,626	876	13,599	14,120	66,100	65,500	1,000	73,055	242,876
with inflation	8,626	876	13,599	15,272	70,248	70,987	1,217	73,135	253,959

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
91864005-Anderson Dam Seismic Retrofit	9,474	1,007	979	12,620	15,272	70,248	70,987	1,217	380	181,204
26C40365-Anderson Dam Seismic Retrofit	0	0	0	0	0	0	0	0	72,755	72,755
TOTAL	9,474	1,007	979	12,620	15,272	70,248	70,987	1,217	73,135	253,959

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	181,204
SCVWD Safe, Clean Water Fund	72,755
Total	253,959

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

Project Calero and Guadalupe Dams Seismic Retrofits
Program Water Supply - Storage **Priority No.** 92
District Contact Katherine Oven koven@valleywater.org **Project No.** 91084020

Aerial view of the Calero Dam and reservoir

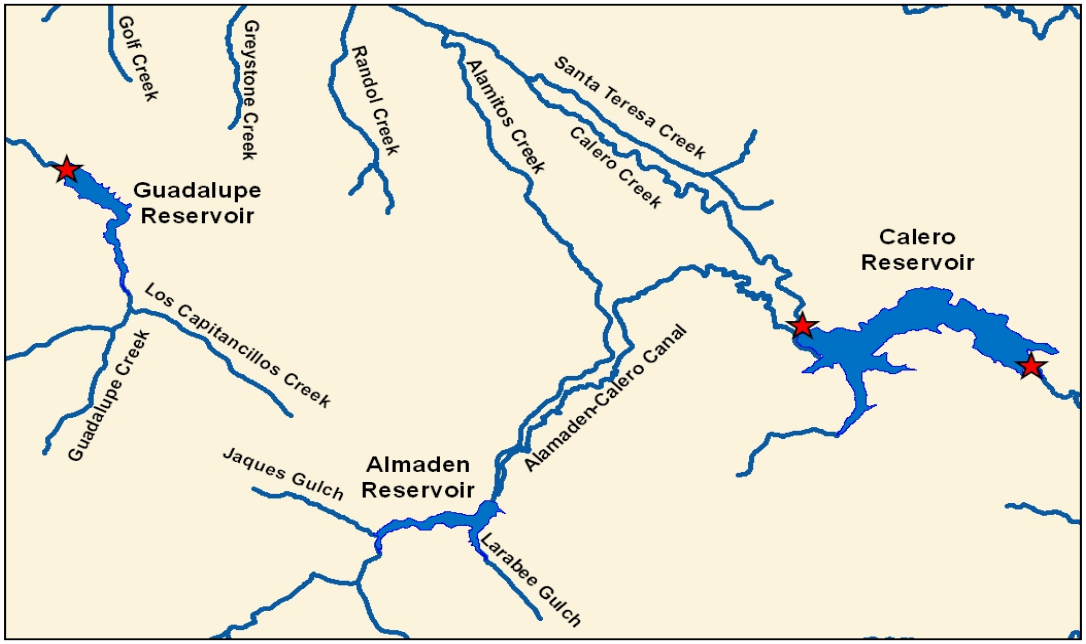
Areial view of the Guadalupe Dam, spillway, and part of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Calero and Guadalupe Dams to accomplish the following objectives:

- Stabilize the Calero and Guadalupe Dams' embankments for the maximum credible earthquake, possibly modify or replace the outlet works, and possibly modify the spillway to increase freeboard during a Probable Maximum Flood (PMF) event
- Modify Fellows Dike to optimize the water utility benefits of Calero Reservoir in a cost-effective manner while considering stakeholder interests consistent with District policies

PROJECT LOCATION

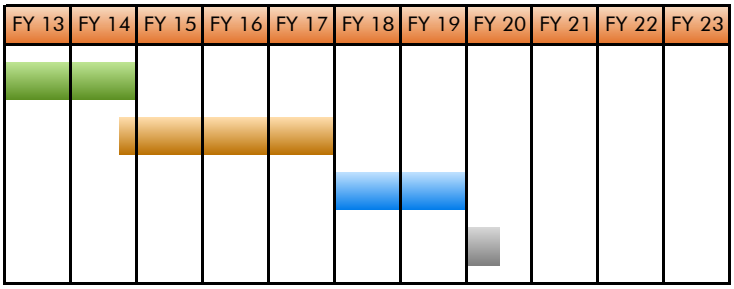


★ Project Location

SCHEDULE & STATUS

July 2012 to December 2019

Phase	Cost
Plan	5,765
Design	6,986
Construct	70,525
Closeout	360
	83,636



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
91084020-Calero and Guadalupe Dams Seismic Retrofits	0	1,525	1,327	5,916	2,617	12,722	49,916	9,613	83,636
with inflation	0	1,525	1,327	6,399	2,944	13,921	55,455	11,223	92,794

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
91084020-Calero and Guadalupe Dams Seismic Retrofits	0	2,170	645	682	6,399	2,944	13,921	55,455	11,223	92,794

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	92,794
Other Funding Source	0
Total	92,794

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: Not Available

Project	**Dam Safety Seismic Stability**
Program	Water Supply – Storage
Priority No.	100
Project No.	91084019
District Contact	Frank Maitski fmaitski@valleywater.org

Field exploration for seismic stability evaluations

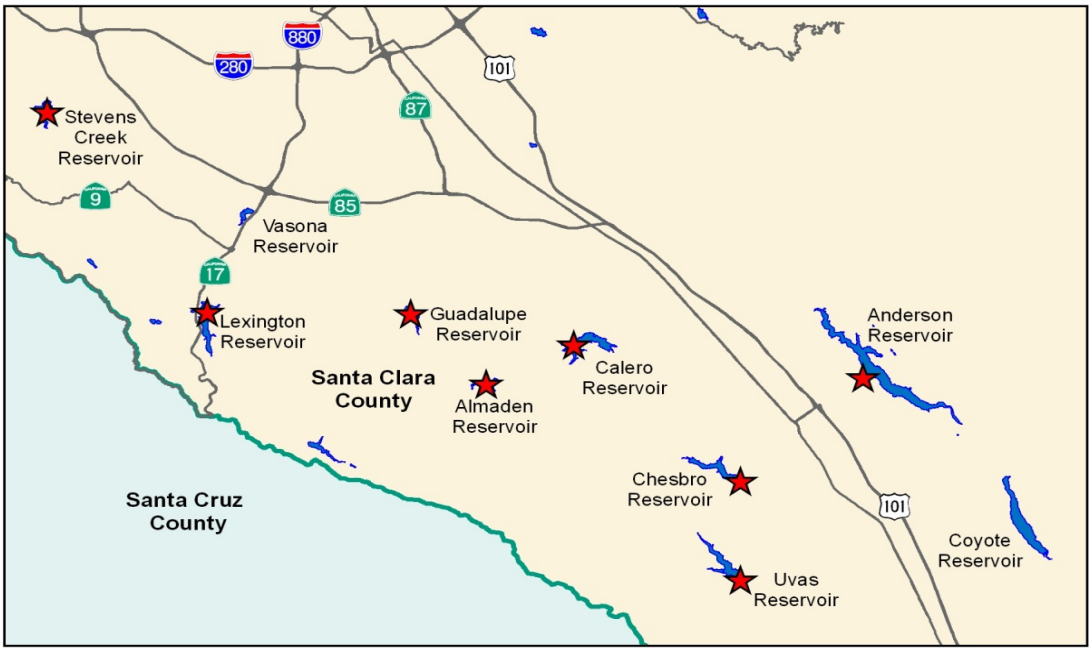
PROJECT DESCRIPTION

This project conducts preliminary planning (seismic stability evaluation) for 8 dams (shown on the map) to accomplish the following objectives:

- Address seismic stability issues.
- Provide for public safety.
- Ensure operational availability of reservoirs.
- Address protection of the assets.

Site specific planning, design, and construction of dam seismic stability improvements will be funded separately. This project funds preliminary planning (seismic stability evaluation, to determine the need for seismic stability improvements) for seven dams. The seismic stability evaluation for Anderson Dam was completed in a separate project. The seismic analysis for Almaden, Calero, Chesbro, Guadalupe, Lenihan, and Stevens Creek Dams has been completed. The analysis for Chesbro and Uvas is continuing through 2016.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

August 2009 to December 2014

(Planning Phase Only)

Phase	Cost
Plan	11,848
Design	-
Construct	-
Closeout	-
	11,848

FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
91084019-Dam Safety Seismic Stability	7,139	2,548	2,400	720	0	0	0	0	12,807
with inflation	7,139	2,548	2,400	779	0	0	0	0	12,866

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
91084019-Dam Safety Seismic Stability	9,485	213	11	2,389	779	0	0	0	0	12,866

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	12,866
Other Funding Source	0
Total	12,866

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

Project	**Pacheco Pumping Plant ASD Replacement**
Program	Water Supply – Storage
Priority No.	80
Project No.	91954001
District Contact	Katherine Oven koven@valleywater.org

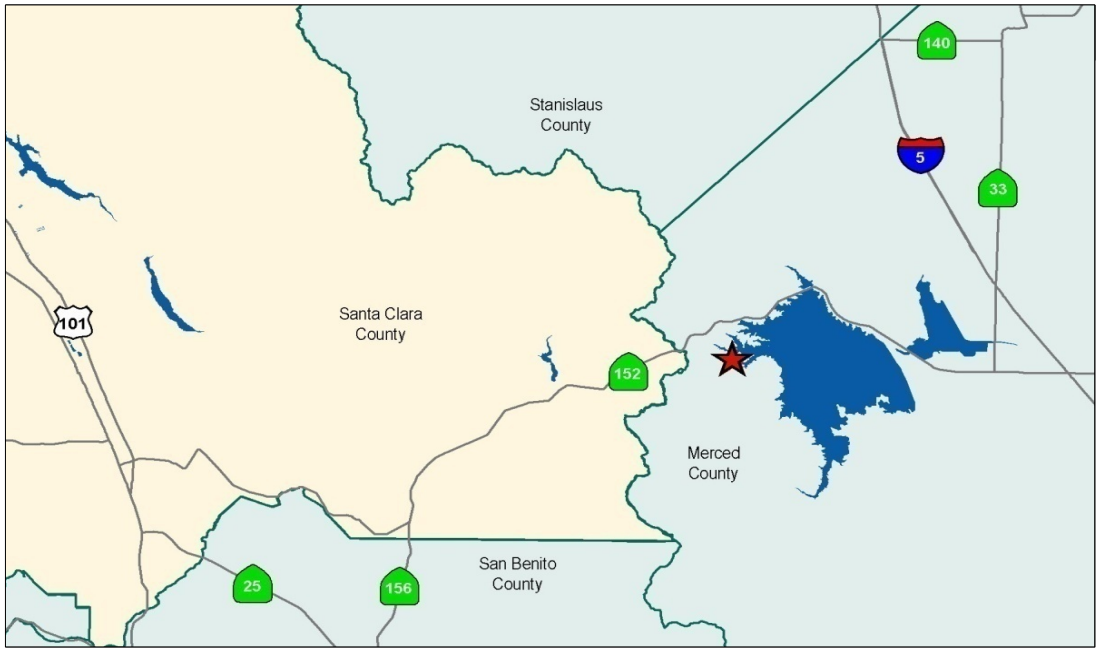
Removing the motor from one of the 12 pumps at Pacheco Pumping Plant

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to replace the existing adjustable speed drives (ASDs) and ancillary equipment at Pacheco Pumping Plant to accomplish the following objectives:

- Improve plant operation and reliability.
- Reduce operation and maintenance costs.

PROJECT LOCATION



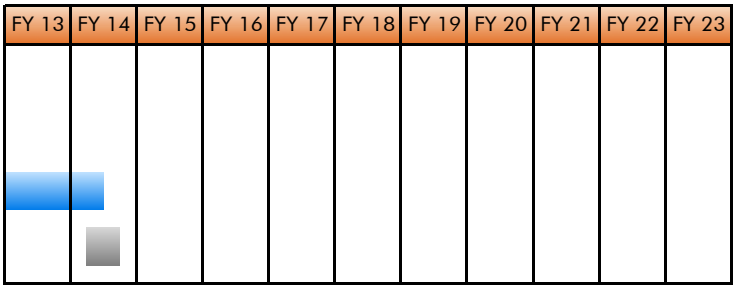
★ Project Location

SCHEDULE & STATUS

July 2003 to February 2014

Planning phase is complete.
Design phase is complete.

Phase	Cost
Plan	797
Design	1,382
Construct	17,422
Closeout	30
	19,631



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
91954001-Pacheco Pumping Plant ASD Replacement	18,363	1,003	286	0	0	0	0	0	19,652
with inflation	18,363	1,003	286	0	0	0	0	0	19,652

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
91954001-Pacheco Pumping Plant ASD Replacement	18,286	1,080	0	286	0	0	0	0	0	19,652

Adjusted Budget includes adopted budget plus a planned budget adjustment for $77,000.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	15,617
San Benito County Water District	4,035
Total	19,652

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately $13,000 beginning in FY 2015 over the first 5 years, as new equipment will require less maintenance.

USEFUL LIFE: 10 – 15 Years

Project	**San Luis Reservoir Low Point Improvement**
Program	Water Supply – Storage
Priority No.	53
Project No.	91214007
District Contact	Joan Maher jmaher@valleywater.org

San Luis Reservoir

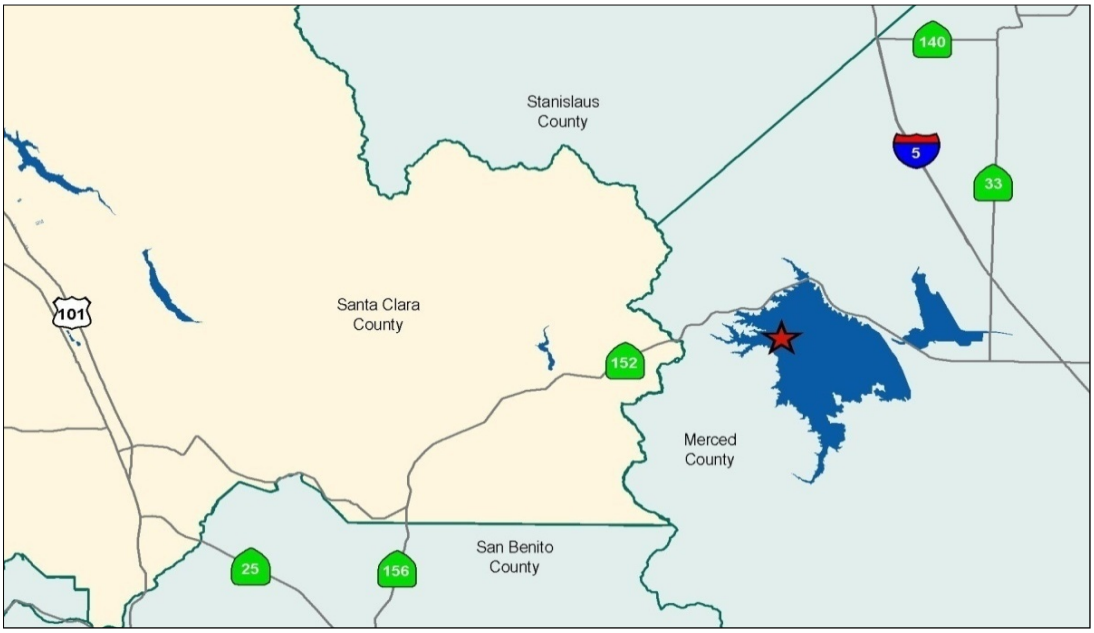
PROJECT DESCRIPTION

This project is in Federal Feasibility with the U.S. Bureau of Reclamation. The objectives, benefits, scope of work and schedule are determined by the federal process. These are presented in the Federal Appraisal Report and Plan of Study May 2006. The federal feasibility study is anticipated to be completed in 2014. On the basis of the water resources problems identified to date, the following study objectives were developed for this project:

- Increase the certainty of meeting the requested delivery schedule of annual allocations to San Luis Reservoir dependant Central Valley Project (CVP) Contractors.
- To the extent possible, while meeting the first objective, increase the reliability (quality of water available for allocation) of annual allocations to CVP contractors.

The project is currently funded for federal planning only. The scope, schedule, costs and funding sources for design and construction will be determined at the completion of the planning phase.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2001 to June 2014

(Planning Phase Only)
Planning phase includes some preliminary design activities.

Phase	Cost
Plan	8,911
Design	322
Construct	1
Closeout	-
	9,234

FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
91214007-San Luis Reservoir Low Point Improvement	12,691	1,236	42	0	0	0	0	0	13,969
with inflation	12,691	1,236	42	0	0	0	0	0	13,969

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
91214007-San Luis Reservoir Low Point Improvement	15,235	12	1,320	0	0	0	0	0	0	15,247

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding exceeds planned expenditures by $1,278,000. Excess funds will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,747
Department of Water Resources	11,454
U.S. Bureau of Reclamation	46
Total	**15,247**
U.S. Bureau of Reclamation - In-kind Services	8,000

OPERATING COST IMPACTS

Planning Phase Only: No operating cost impacts are expected from the completion of this phase of the project.

USEFUL LIFE: Not Available

Project	**Small Capital Improvements, San Felipe**
Program	Water Supply – Storage
Priority No.	66
Project No.	91214010s
District Contact	Deputy of Water Utility O&M info@valleywater.org

Suction wear ring bacterial corrosion of Impeller. Similar rehabilitation projects will be done in this project.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the lifetime of an asset. This project implements a systematic approach to equipment replacement and renewal at facilities contained within San Felipe Division by designing and constructing improvements identified through the District's 10-year asset management program. Infrastructure within this project includes tunnels, large diameter pipelines and valve structures, pumps and associated equipment, as well as a large above ground storage tank. The Reach 1 renewal and replacement activities are conducted in coordination and cooperation with San Felipe Division Reach 1 contractors, partner cities, and other agencies. Planned projects for FY 2014 include:

- 91214010–Reach 1: Survey for cathodic protection; Inspect and rehabilitate the Pacheco Tunnel and conduit;
- 91214010–Reach 1: Replacement of HVOC control center; and Replace SCADA Operator view node desktop
- 91224010–Reach 2: No Projects Planned.
- 91234010–Reach 3: Replace instrument control panels for Pump Units 5 & 6

PROJECT LOCATION

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	14,792

FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
91214010-Small Capital Improvements, San Felipe Reach 1	n/a	1,547	2,950	118	0	115	500	857	6,087
with inflation	n/a	1,547	2,950	128	0	135	608	1,097	6,464
91224010-Small Capital Improvements, San Felipe Reach 2	n/a	0	0	66	0	0	0	93	159
with inflation	n/a	0	0	71	0	0	0	118	189
91234010-Small Capital Improvements, San Felipe Reach 3	n/a	61	1,709	497	738	4,610	0	931	8,546
with inflation	n/a	61	1,709	538	830	5,393	0	1,242	9,773
TOTAL	**0**	**1,608**	**4,659**	**681**	**738**	**4,725**	**500**	**1,881**	**14,792**
with inflation	**0**	**1,608**	**4,659**	**737**	**830**	**5,528**	**608**	**2,456**	**16,426**

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
91214010-Small Capital Improvements, San Felipe Reach 1	n/a	1,578	0	2,950	128	0	135	608	1,097	6,495
91224010-Small Capital Improvements, San Felipe Reach 2	n/a	0	0	0	71	0	0	0	118	189
91234010-Small Capital Improvements, San Felipe Reach 3	n/a	61	0	1,709	538	830	5,393	0	1,242	9,773
TOTAL	**0**	**1,639**	**0**	**4,659**	**737**	**830**	**5,528**	**608**	**2,456**	**16,457**

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	15,035
San Benito County Water District	1,422
Total	**16,457**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Stevens Creek Dam Seismic Retrofit**
Program	Water Supply – Storage
Priority No.	76
Project No.	91914001
District Contact	Frank Maitski fmaitski@valleywater.org

Aerial view of Stevens Creek Dam and spillway, with a portion of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Stevens Creek Dam to accomplish the following objectives:

- Reduce deformation and cracking of the dam after a Maximum Credible Earthquake (MCE)
- Reduce potential for failure of the dam due to uplifting and piping at the downstream toe of the dam

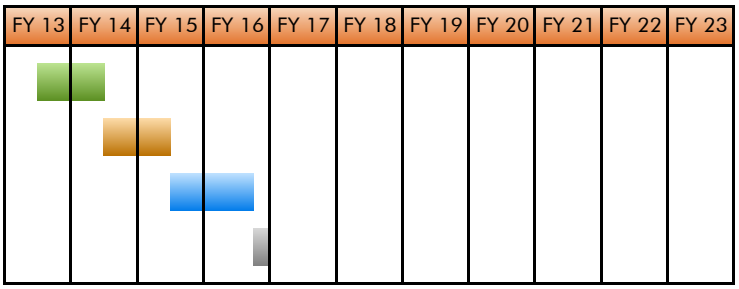
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

January 2013 to June 2016

Phase	Cost
Plan	1,307
Design	1,600
Construct	7,000
Closeout	200
	10,107



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
91914001-Stevens Creek Dam Seismic Retrofit	0	400	1,605	7,652	450	0	0	0	10,107
with inflation	0	400	1,605	8,009	506	0	0	0	10,520

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
91914001-Stevens Creek Dam Seismic Retrofit	0	400	0	1,605	8,009	506	0	0	0	10,520

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	10,520
Other Funding Sources	0
Total	10,520

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

Project	**TC HCP Implementation**
Program	Water Supply - Storage
Priority No.	63
Project No.	92C40357
District Contact	Katherine Oven koven@valleywater.org

Fish habitats such as this will be developed for Habitat Conservation. Actual locations will differ.

PROJECT DESCRIPTION

This project funds habitat conservation projects to be implemented as part of the Three Creeks Habitat Conservation Plan (TC HCP). The Three Creeks HCP grew out of the 1996 Water Rights Complaint and subsequent Fish and Aquatic Habitat Conservation Effort (FAHCE). The capital project components of the conservation measures are likely to include projects such as: upgrades for operational adaptibility and flexibility; instream channel enhancements; new fish screens, and instream barrier removals. When implemented, the TC HCP currently under development will contain conservation measures designed to:

- Meet instream flows to support fish spawning, rearing and migration
- Provide fish passages to accommodate annual migration
- Improve instream habitat for steelhead

PROJECT LOCATION

Project sites will be located at reservoirs and streams within the Three Creeks Project Area, in the Guadalupe, Coyote and Stevens Creek Watersheds. Project site locations are yet to be determined and no map is provided.

SCHEDULE & STATUS

July 2015 to June 2022

Phase	Cost
Plan	110,191
Design	-
Construct	-
Closeout	-
	110,191

FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
92C40357-TC HCP Implementation	0	0	0	0	1,483	3,976	3,515	101,217	110,191
with inflation	0	0	0	0	1,668	4,651	4,277	140,318	150,914

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
92C40357-TC HCP Implementation	0	0	0	0	0	1,668	4,651	4,277	140,318	150,914

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	150,914
Other Funding Source	0
Total	150,914

OPERATING COST IMPACTS

Operating cost impacts will vary, depending on the requirements for maintenance of each site. Once the sites have been identified, operating costs will be determined based on the existing conditions and maintenance identified for each site.

USEFUL LIFE: N/A

Project	**5-Year Pipeline Rehabilitation**
Program	Water Supply – Transmission
Priority No.	56
Project No.	95084001
District Contact	Frank Maitski fmaitski@valleywater.org

A typical line valve assembly to be rehabilitated

PROJECT DESCRIPTION

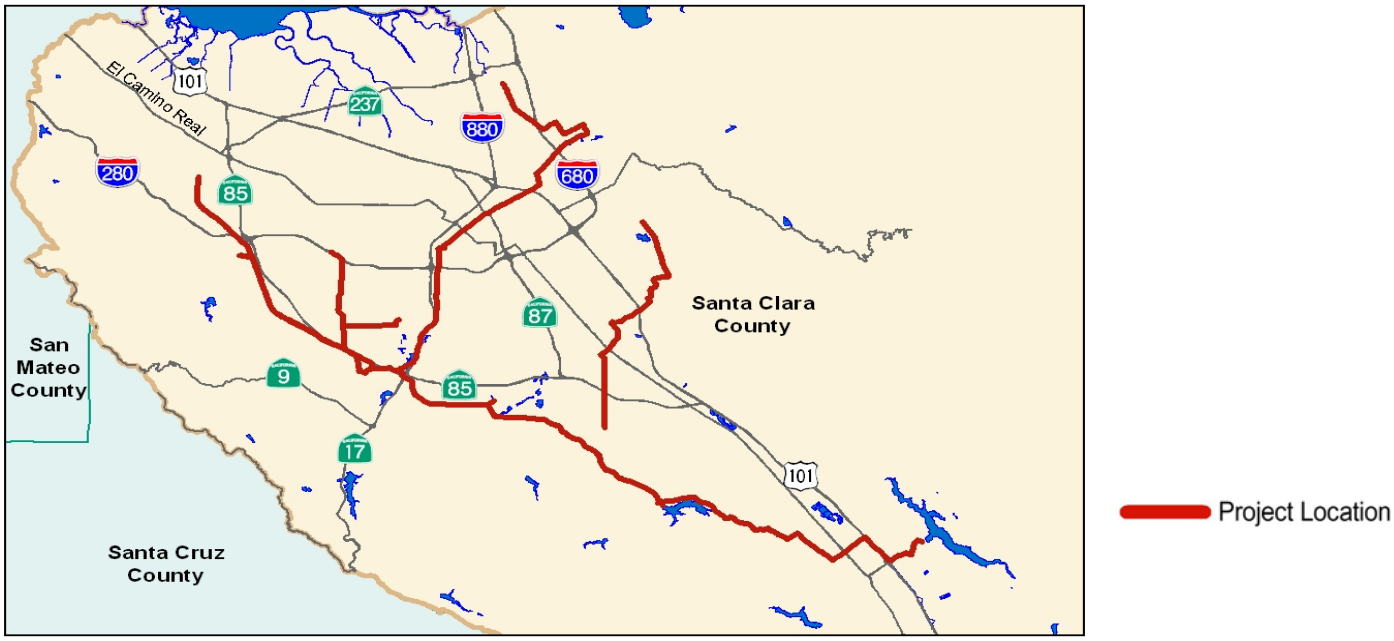
This project plans, designs, and constructs major repairs and improvements to the District's pipelines and tunnels to accomplish the following objectives:

- Perform internal inspections, maintenance, and repair activities as required
- Replace old valves, flow meters, pipeline appurtenance assemblies, and piping as approprate
- Upgrade pipeline air valve venting in accordance with CDPH guidelines
- Modify failure prone pipeline appurtenance connections

This project funds inspection and rehabilitation work along the various pipelines and tunnels as identified below:

- 2014: Milpitas Pipeline, Pacheco & Santa Clara Tunnels, and Pacheco Conduit
- 2015: Anderson Force Main, Cross Valley Pipeline-Phase 1, Snell Pipeline, and Parallel East Pipeline
- 2016: Calero Bypass, Cross Valley Pipeline-Phase 2, Snell Pipeline, and Greystone Pipeline
- 2017: Central Pipeline, West Pipeline, and Rinconada Force Main

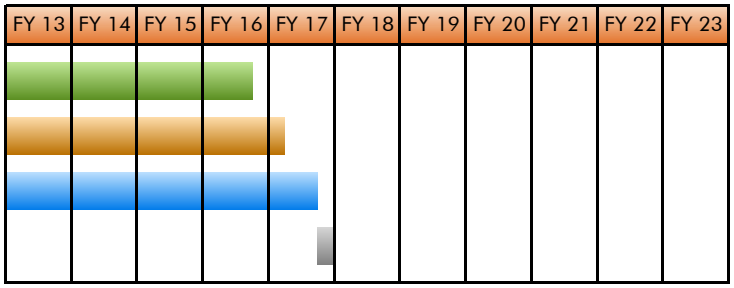
PROJECT LOCATION



SCHEDULE & STATUS

July 2012 to June 2017

Phase	Cost
Plan	1,899
Design	4,519
Construct	16,466
Closeout	10
	22,894



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
95084001-5-Year Pipeline Rehabilitation	0	4,133	2,826	8,082	3,578	4,275	0	0	22,894
with inflation	0	4,133	2,826	8,551	3,935	4,846	0	0	24,291

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
95084001-5-Year Pipeline Rehabilitation	0	4,133	0	2,826	8,551	3,935	4,846	0	0	24,291

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	24,291
San Benito County Water District	0
Total	24,291

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Alamitos Diversion Dam Improvements**
Program	Water Supply – Transmission
Priority No.	72
Project No.	92404003
District Contact	Melanie Richardson mrichardson@valleywater.org

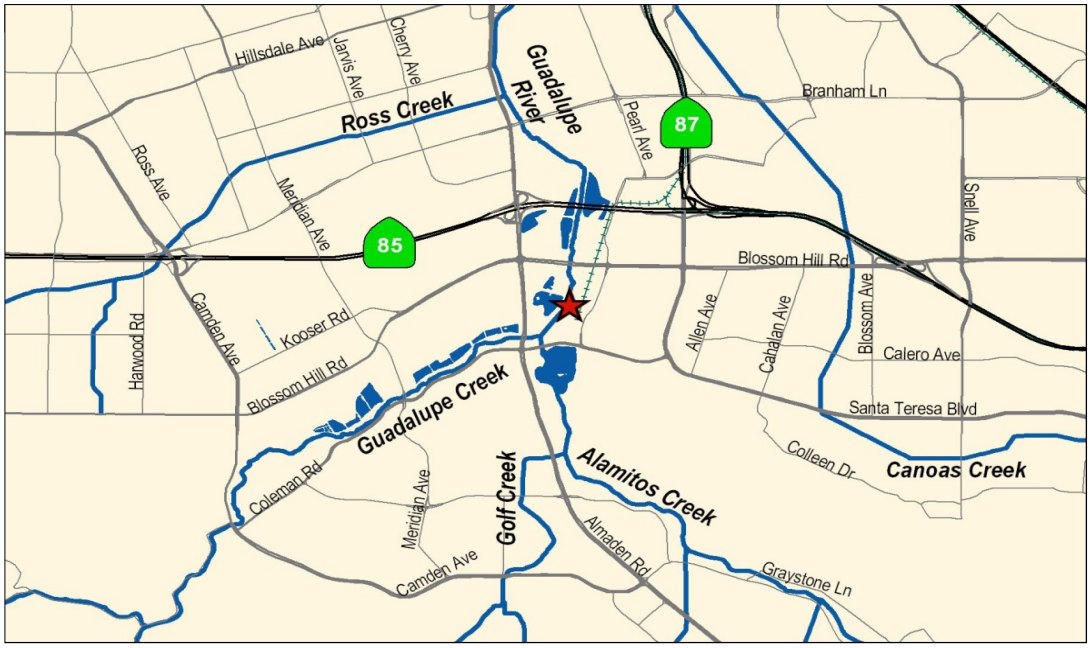
Future location of Alamitos Diversion Dam on Guadalupe River

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Alamitos Diversion Dam on the Guadalupe River, about 1,300 feet upstream of Blossom Hill Road in San Jose, to accomplish the following objectives:

- Preserve existing water rights.
- Improve staff safety by minimizing exposure of staff to a potentially hazardous environment.
- Perform operations and maintenance in a more environmentally sensitive manner.

PROJECT LOCATION



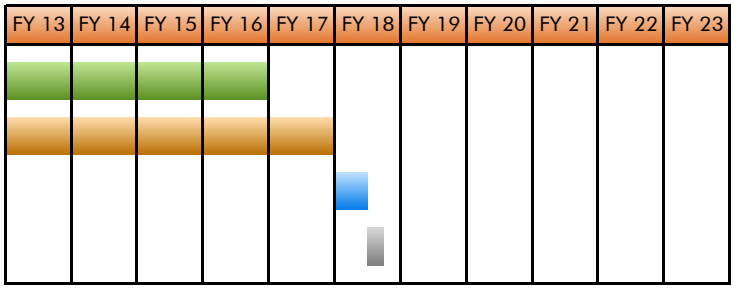
★ Project Location

SCHEDULE & STATUS

August 2006 to March 2018

Planning and Design schedules are extended to coordinate with the Three Creeks Habitat Conservation Plan.

Phase	Cost
Plan	962
Design	228
Construct	1,860
Closeout	15
	3,065



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
92404003-Alamitos Diversion Dam Improvements	836	1	1	1	291	820	1,115	0	3,065
with inflation	836	1	1	1	327	898	1,273	0	3,337

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
92404003-Alamitos Diversion Dam Improvements	2,962	0	2,125	0	0	0	0	375	0	3,337

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,337
Other Funding Source	0
Total	**3,337**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined upon completion of the planning study.

USEFUL LIFE: 50+ Years

Project	**Coyote Diversion Dam Improvements**
Program	Water Supply – Transmission
Priority No.	72
Project No.	92484003
District Contact	Melanie Richardson mrichardson@valleywater.org

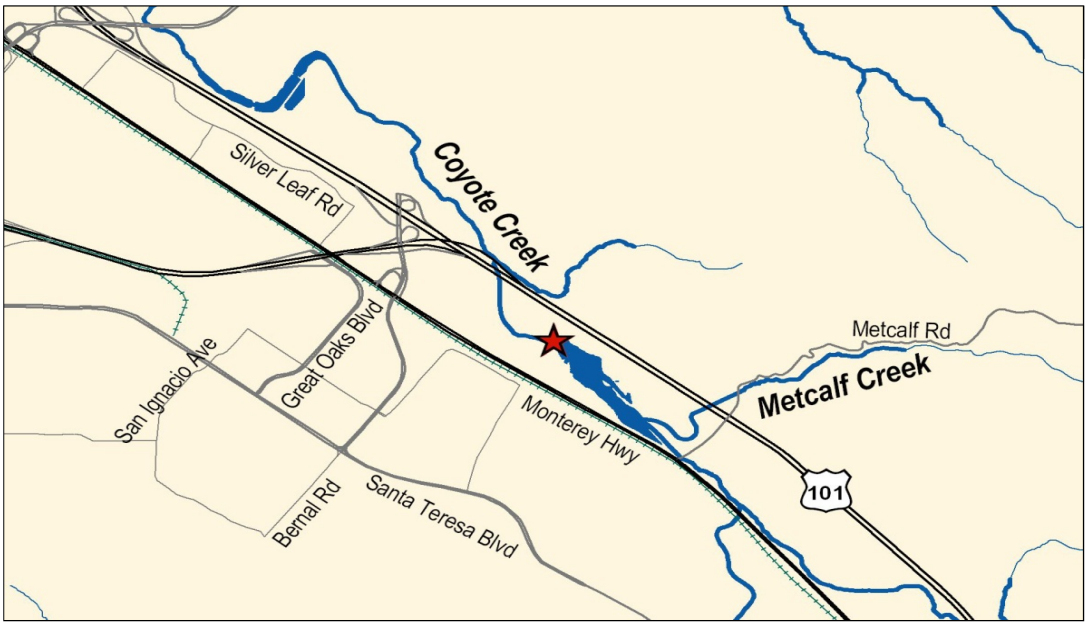
Steel Diversion Dam on Coyote Creek

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Coyote Steel Diversion Dam located on Coyote Creek, about 2,000 feet downstream of Metcalf Road, to accomplish the following objectives:

- Preserve existing water rights.
- Improve staff safety associated with the removal and installation of the dam.
- Streamline flood prevention and operating procedures for removal and installation of the dam.

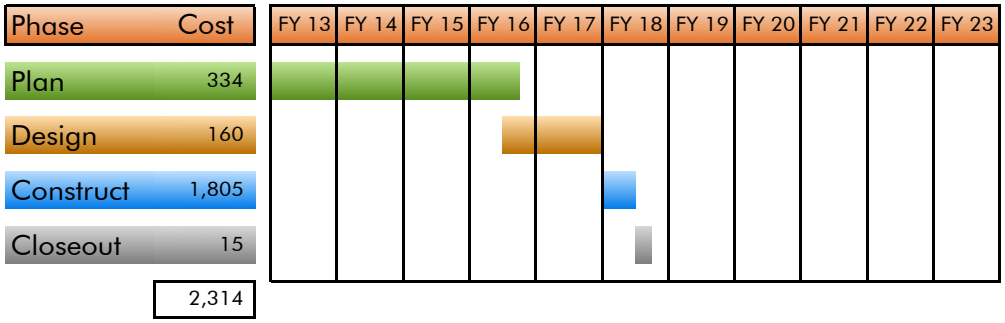
PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2007 to January 2018



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
92484003-Coyote Diversion Dam Improvements	319	1	1	1	122	800	1,070	0	2,314
with inflation	319	1	1	1	137	875	1,218	0	2,552

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
92484003-Coyote Diversion Dam Improvements	709	0	389	0	0	0	625	1,218	0	2,552

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	2,552
Other Funding Source	0
Total	2,552

OPERATING COST IMPACTS

Operating cost impacts are anticipated an will be available upon completion of the planning study.

USEFUL LIFE: 50+ Years

Project	**IRP2 Additional Line Valves**
Program	Water Supply – Transmission
Priority No.	40
Project No.	26C40349
District Contact	Katherine Oven koven@valleywater.org

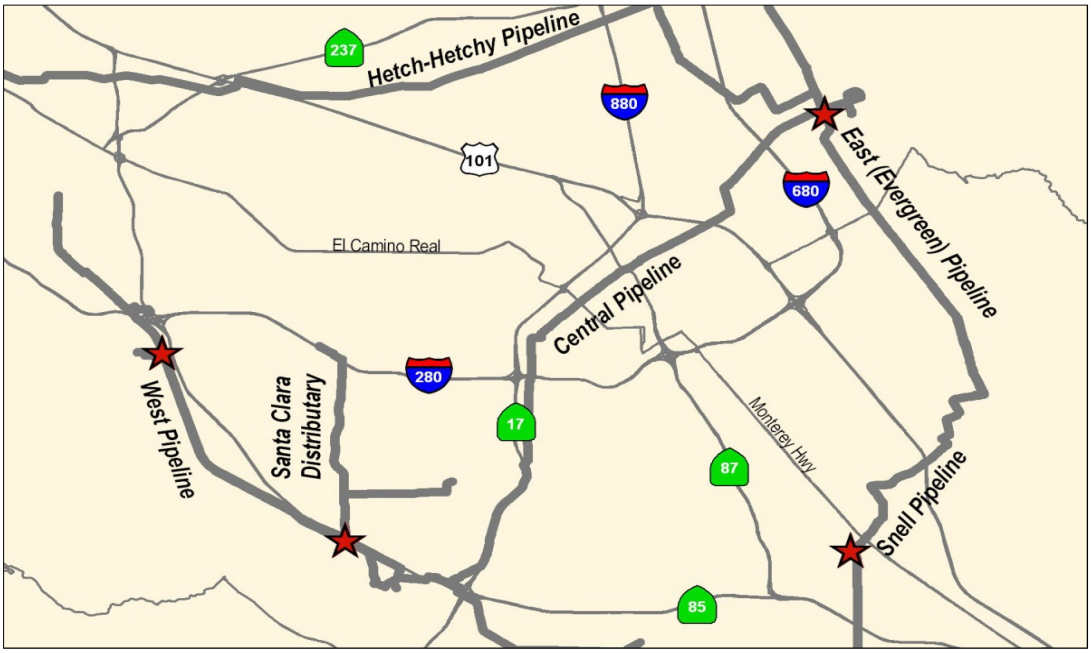
New line valves, actuators, and vaults similar to this will be installed along the East, West, and Snell pipelines

PROJECT DESCRIPTION

This project plans, designs, and constructs four additional line valves in the treated water distribution system, as defined in the Water Infrastructure Reliability Plan, Phase 2 (IRP2). The new line valves will be at various locations along the East, West, and Snell pipeline to accomplish the following objectives:

- Allow the district to isolate sections of the treated water pipeline to prevent water from bleeding out damaged sections following a major seismic event.
- Allow the network of emergency wells to operate, even when there is damage upstream and downstream of individual wells.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2024 to June 2027

Phase	Cost
Plan	795
Design	960
Construct	7,023
Closeout	130
	8,908

FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
26C40349-IRP2 Additional Line Valves	0	0	0	0	0	0	0	8,908	8,908
with inflation	0	0	0	0	0	0	0	12,900	12,900

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
26C40349-IRP2 Additional Line Valves	0	0	0	0	0	0	0	0	12,900	12,900

FUNDING SOURCES

(in thousands $)

SCVWD Safe Clean Water Fund	12,900
Other Funding Source	0
Total	12,900

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not signifiantly alter the existing facilities or modes of operation.

USEFUL LIFE: 35 Years

Project	**Kirk Diversion Dam and Fish Screen Improvements**
Program	Water Supply – Transmission
Priority No.	72
Project No.	92534003
District Contact	Melanie Richardson mrichardson@valleywater.org

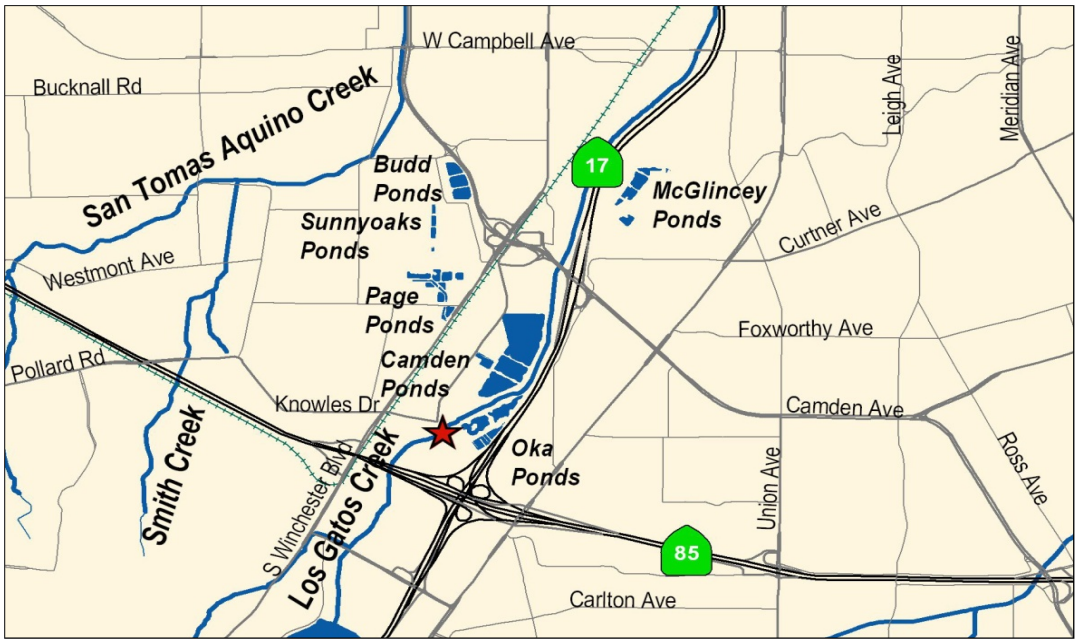
Kirk Dam on Los Gatos Creek

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to Kirk Diversion Dam on Los Gatos Creek approximately 4,000 feet downstream of Lark Avenue, adjacent to the intersection of Knowles Drive and Dell Avenue, to accomplish the following objectives:

- Preserve existing water rights.
- Reduce flood risk, because the existing flashboard system cannot be removed during storm events or emergencies.
- Improve staff safety by minimizing exposure of staff to a potentially hazardous environment.
- Reduce entrainment of aquatic life forms into the Kirk and Page Ditches.
- Perform operations and maintenance in a more environmentally sensitive manner.

PROJECT LOCATION

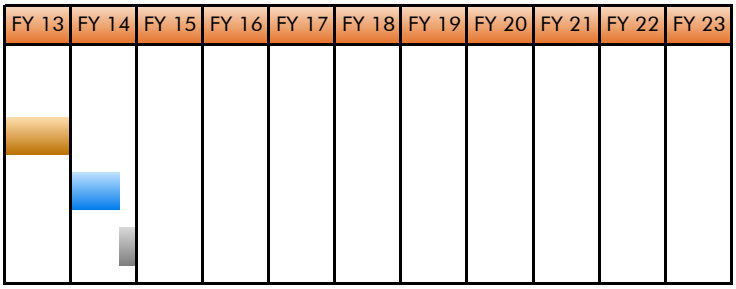


★ Project Location

SCHEDULE & STATUS

May 2007 to June 2014

Phase	Cost
Plan	656
Design	728
Construct	1,795
Closeout	404
	3,583



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
92534003-Kirk Diversion Dam and Fish Screen Improvements	1,383	1,757	451	0	0	0	0	0	3,591
with inflation	1,383	1,757	451	0	0	0	0	0	3,591

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
92534003-Kirk Diversion Dam and Fish Screen Improvements	3,196	0	56	395	0	0	0	0	0	3,591

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,591
Other Funding Source	0
Total	3,591

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately $8,000 per year, beginning in 2015, based on manual installation and removal of the flashboards. District maintenance crews are required to regularly inspect the site and maintain the rubber dam and fish screens.

USEFUL LIFE: 50+ Years

Project **Main & Madrone Pipelines Restoration**
Program Water Supply - Transmission **Priority No.** 70
District Contact Katherine Oven koven@valleywater.org **Project No.** 26C40350s

Main Avenue Ponds facing North

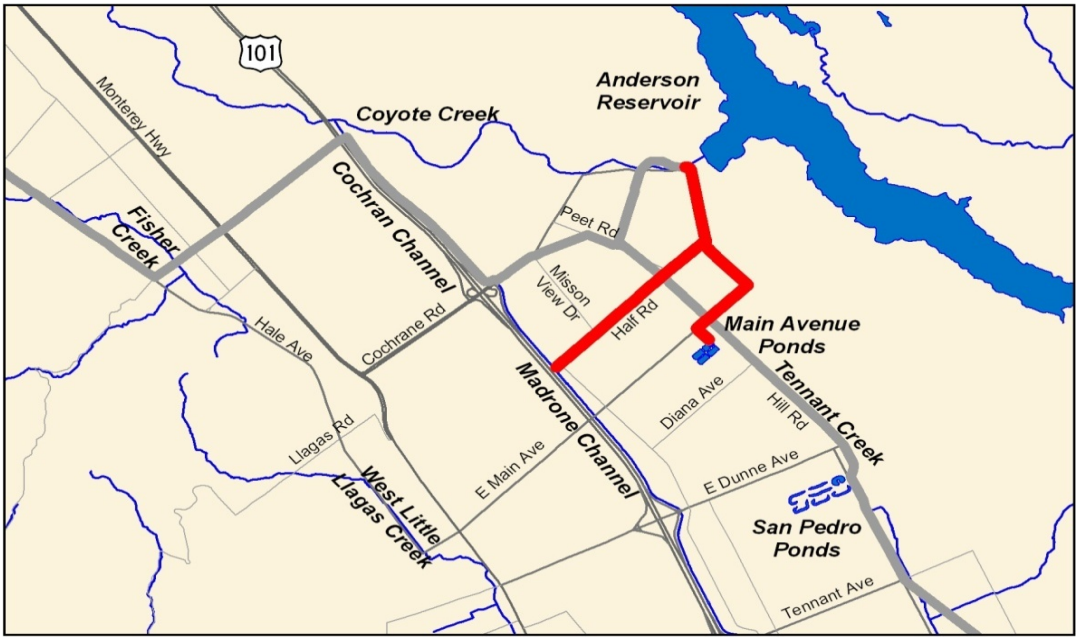
Madrone Pipeline Outlet into Madrone Channel looking North along Northbound Interstate 101

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements on the full length of the Madrone Pipeline and rehabilitates the Main Avenue Pipeline to accomplish the following objectives:

- Provide the means to utilize another reliable water source, (e.g. Anderson Reservoir) to supply water to the Main Avenue Ponds and the Madrone Channel.
- Allow for greater flows to the Main Avenue Ponds and the Madrone Channel.
- Maximize imported water flows to the treatment plants.

PROJECT LOCATION

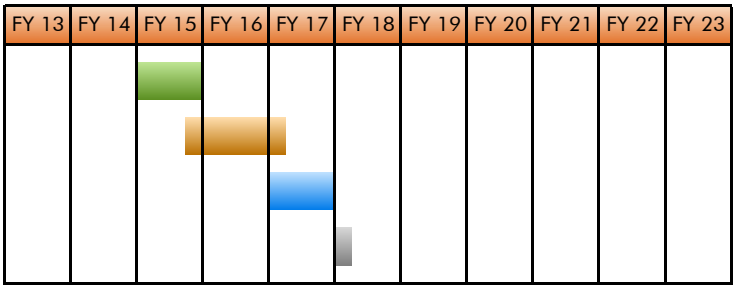


Project Location

SCHEDULE & STATUS

July 2015 to September 2017

Phase	Cost
Plan	351
Design	939
Construct	4,564
Closeout	197
	6,051



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
26C40350-Main & Madrone Pipelines Restoration	0	0	0	530	579	6,071	200	0	7,380
with inflation	0	0	0	573	651	6,833	243	0	8,300
92C40371-Main & Madrone Pipelines Restoration	0	0	0	0	0	3,020	0	0	3,020
with inflation	0	0	0	0	0	3,269	0	0	3,269
TOTAL	0	0	0	530	579	9,091	200	0	10,400
with inflation	0	0	0	573	651	10,101	243	0	11,569

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
26C40350-Main & Madrone Pipelines Restoration	0	0	0	0	573	651	6,833	243	0	8,300
92C40371-Main & Madrone Pipelines Restoration	0	0	0	0	0	0	3,269	0	0	3,269
TOTAL	0	0	0	0	573	651	10,101	243	0	11,569

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	8,300
SCVWD Water Utility Enterprise Fund	3,269
Total	11,569

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as it does not significantly alter the facility or modes of operation.

USEFUL LIFE: 40 Years

Project	**Pacheco/Santa Clara Conduit Right of Way Acquisition**
Program	Water Supply – Transmission
Priority No.	60
Project No.	92144001
District Contact	Katherine Oven koven@valleywater.org

Access to much of the San Felipe Division pipelines must currently be made through private property, due to a lack of easements, such as Bloomfield access at Vault 21-23.

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements related to the acquisition of right of way along the South County Pipeline to accomplish the following objectives:

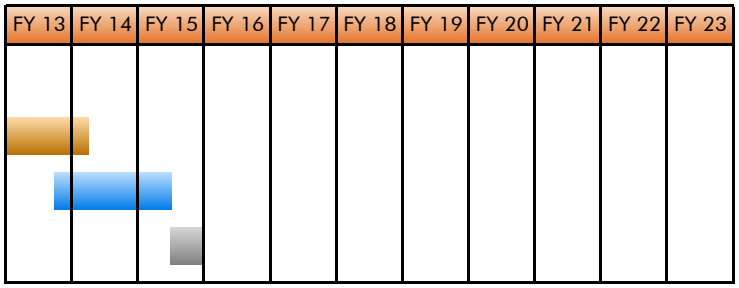
- Provide unlimited access to District owned pipeline.
- Reduce conflicts with local land owners and improve response time for emergency repairs or operations.

PROJECT LOCATION

SCHEDULE & STATUS

July 2009 to June 2015

Phase	Cost
Plan	530
Design	1,707
Construct	496
Closeout	35
	2,768



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
92144001-Pacheco/Santa Clara Conduit Right of Way Acquisition	696	858	1,010	277	0	0	0	0	2,841
with inflation	696	858	1,010	292	0	0	0	0	2,856

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
92144001-Pacheco/Santa Clara Conduit Right of Way Acquisition	853	702	1	1,009	292	0	0	0	0	2,856

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	2,837
San Benito County Water District	19
Total	2,856

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $8,000 per year, beginning in FY 2016, for vegetation control and/or maintenance of fences, gates and locks for the access roads.

USEFUL LIFE: 15-20 Years

Project	**Penitencia Delivery Main/Force Main Seismic Retrofit**
Program	Water Supply – Transmission
Priority No.	84
Project No.	94384002s
District Contact	Katherine Oven koven@valleywater.org

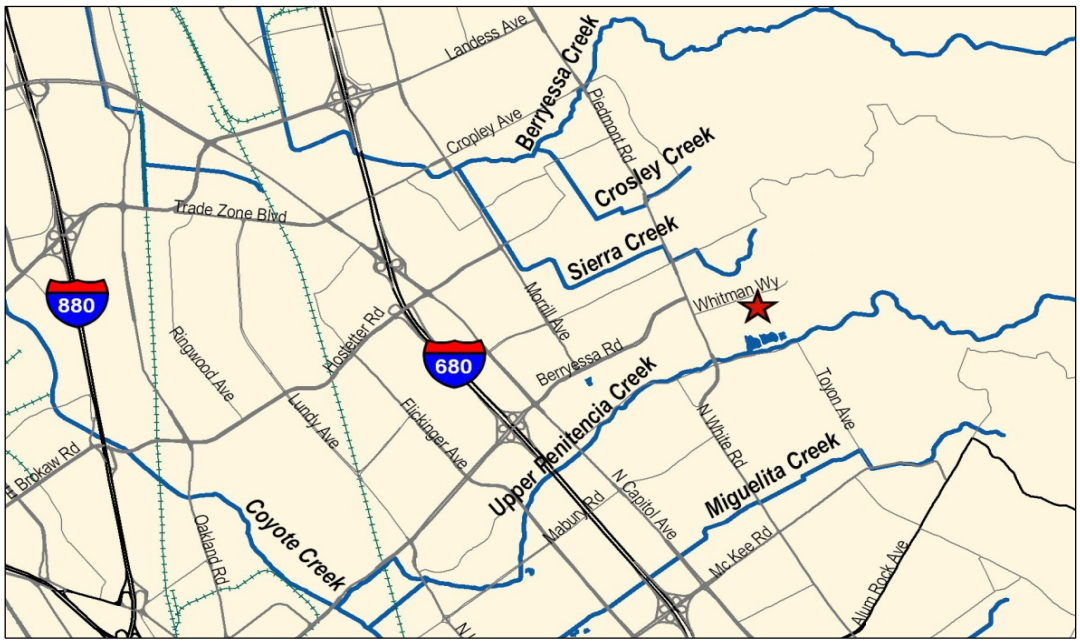
View of the Delivery Main for the Penitencia Water Treatment Plant

PROJECT DESCRIPTION

This project plans, designs, and constructs seismic improvements to the delivery main and force main junctions to prevent catastrophic failure due to an earthquake by accomplishing the following objectives:

- Perform a structural survey of the Penitencia Vault and Penitencia Delivery Main (PDM) Effluent Vault to ascertain the existing condition, their life expectancy, and whether any changes are necessary to accommodate the seismic retrofit project.
- Perform a seismic retrofit to the PDM, Penitencia Force Main (PFM), South Bay Aqueduct (SBA), and if necessary, the Penitencia and PDM Effluent Vaults to accommodate both the creeping and potentially extensive seismically-induced movements of the active landslide over a 50-year design life.

PROJECT LOCATION

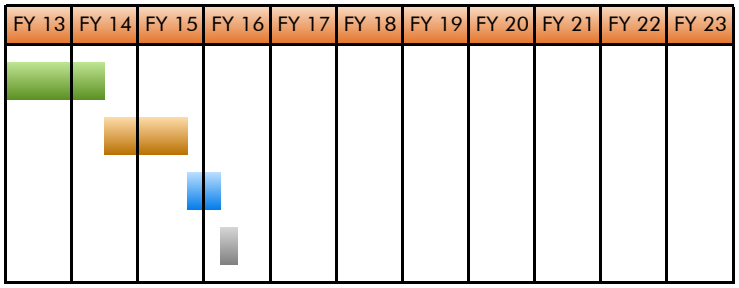


★ Project Location

SCHEDULE & STATUS

July 2012 to December 2015

Phase	Cost
Plan	1,332
Design	1,300
Construct	4,940
Closeout	20
	7,592



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
94384002-Penitencia Delivery Main Seismic Retrofit	0	510	379	2,779	128	0	0	0	3,796
with inflation	0	510	379	2,917	144	0	0	0	3,950
92224001-Penitencia Force Main Seismic Retrofit	0	510	382	2,776	128	0	0	0	3,796
with inflation	0	510	382	2,914	144	0	0	0	3,950
TOTAL:	0	1,020	761	5,555	256	0	0	0	7,592
Total with inflation	0	1,020	761	5,831	288	0	0	0	7,900

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
94384002-Penitencia Delivery Main Seismic Retrofit	0	510	0	379	2,917	144	0	0	0	3,950
92224001-Penitencia Force Main Seismic Retrofit	0	510	0	382	2,914	144	0	0	0	3,950
TOTAL	0	1,020	0	761	5,831	288	0	0	0	7,900

Adjusted Budget includes adopted budget plus a planned budget adjustment of $386,000.

FUNDING SOURCES

(in thousands $)

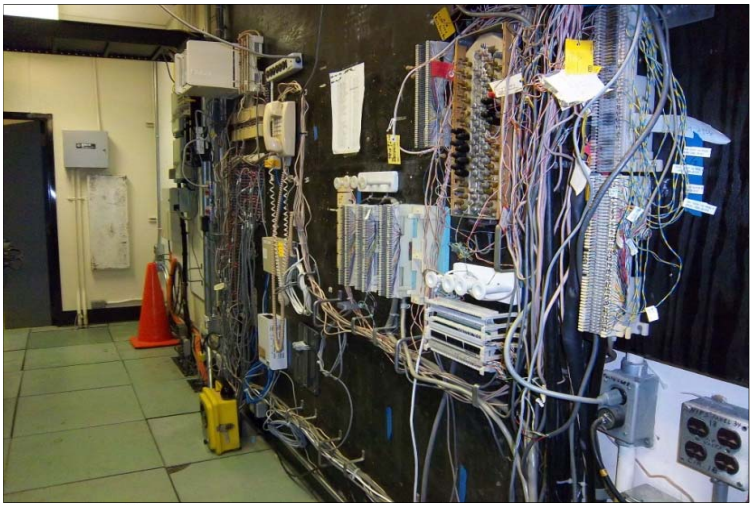
SCVWD Water Utility Enterprise Fund	7,900
Other Funding Source	0
Total	7,900

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE

Project	**SCADA Remote Architecture and Communications Upgrade**
Program	Water Supply – Transmission
Priority No.	48
Project No.	92374005
District Contact	Katherine Oven koven@valleywater.org



Raw Water Control Center Hub at Rinconada WTP similar to what will be installed at other facilities

PROJECT DESCRIPTION

This project plans, designs, and implements improvements to the back-up raw water control center and SCADA telemetry to accomplish the following objectives:

- Complete the mobilizable raw water control center so it can be operated at any of the water treatment plants, pumping plants, or at District Headquarters/Almaden Campus.
- Upgrade the SCADA telemetry system to remove the single points of failure and to provide a robust and reliable telemetry system.

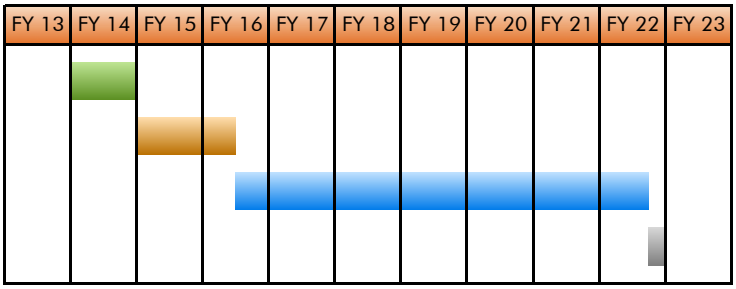
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2013 to June 2022

Phase	Cost
Plan	390
Design	600
Construct	4,290
Closeout	30
	5,310



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
92374005-SCADA Remote Architecture and Communications Upgrade	0	0	370	360	729	693	693	2,465	5,310
with inflation	0	0	370	389	795	758	776	2,918	6,006

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
92374005-SCADA Remote Architecture and Communications Upgrade	0	0	0	370	389	795	758	776	2,918	6,006

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	6,006
Other Funding Source	0
Total	6,006

OPERATING COST IMPACTS

The completion of this project is anitcipated to increase operating costs by approximately $80,440 per year, beginning in FY 2023.

USEFUL LIFE: 25 Years

Project	**Small Capital Improvements, Raw Water Transmission**
Program	Water Supply – Transmission
Priority No.	72
Project No.	92764009
District Contact	Deputy of Water Utility O&M info@valleywater.org

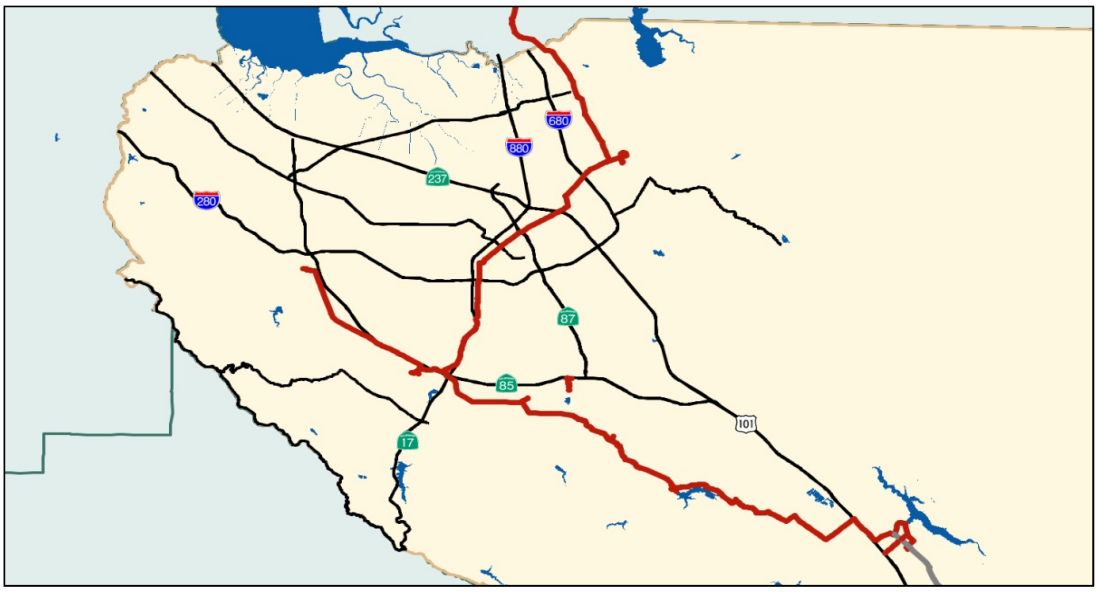
Major repair and replacement of turnout roofs and similar small raw water capital projects will be done, per the asset management plan.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the lifetime of an asset. This project will repair or rehabilitate various existing raw water distribution facilities. These activities include identifying and fixing corrosion problems, replacing valves and other appurtenances and modifying water recharge facilities to avoid failure of the raw water transmission system and extend the life of the infrastructure. This project is part of the District's 10-year asset management program. Planned projects for FY 2014 include:

- Replace Corrosion Protection System at Station 271+30

PROJECT LOCATION



Project Location

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
92764009-Small Capital Improvements, Raw Water Transmission	n/a	624	43	352	177	0	106	122	1,424
with inflation	n/a	624	43	381	199	0	129	169	1,545

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
92764009-Small Capital Improvements, Raw Water Transmission	n/a	719	0	43	381	199	0	129	169	1,640

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	1,640
Other Funding Source	0
Total	1,640

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Small Capital Improvements, Treated Water Transmission**
Program	Water Supply – Transmission
Priority No.	65
Project No.	94764006
District Contact	Deputy of Water Utility O&M info@valleywater.org

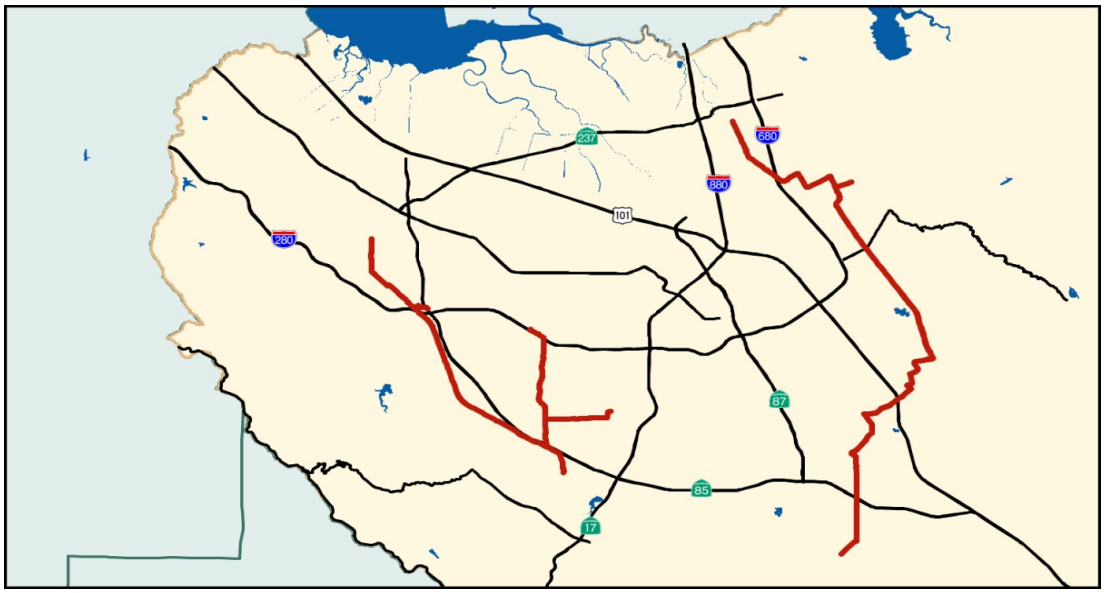
Small Capital projects at treated water transmission facilities, similar to this new valve installation in the Piedmont Line Valve Vault, will be done, per the asset management plan.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the lifetime of an asset. This project will repair or rehabilitate various existing treated water distribution facilities, such as identifying and treating corrosion problems, replacing valves and other appurtenances and repairing or adding turnouts to avoid failure of the treated water transmission system and to extend the life of the infrastructure. This project is part of the District's 10-year asset management program. Planned projects for FY 2014 include:

- Replace the Corrosion Protection System at Station 1+50

PROJECT LOCATION



Project Location

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
94764006-Small Capital Improvements, Treated Water Transmission	n/a	998	0	52	0	0	0	75	1,125
with inflation	n/a	998	0	56	0	0	0	95	1,149

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
94764006-Small Capital Improvements, Treated Water Transmission	n/a	998	0	0	56	0	0	0	95	1,149

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	1,149
Other Funding Source	0
Total	1,149

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

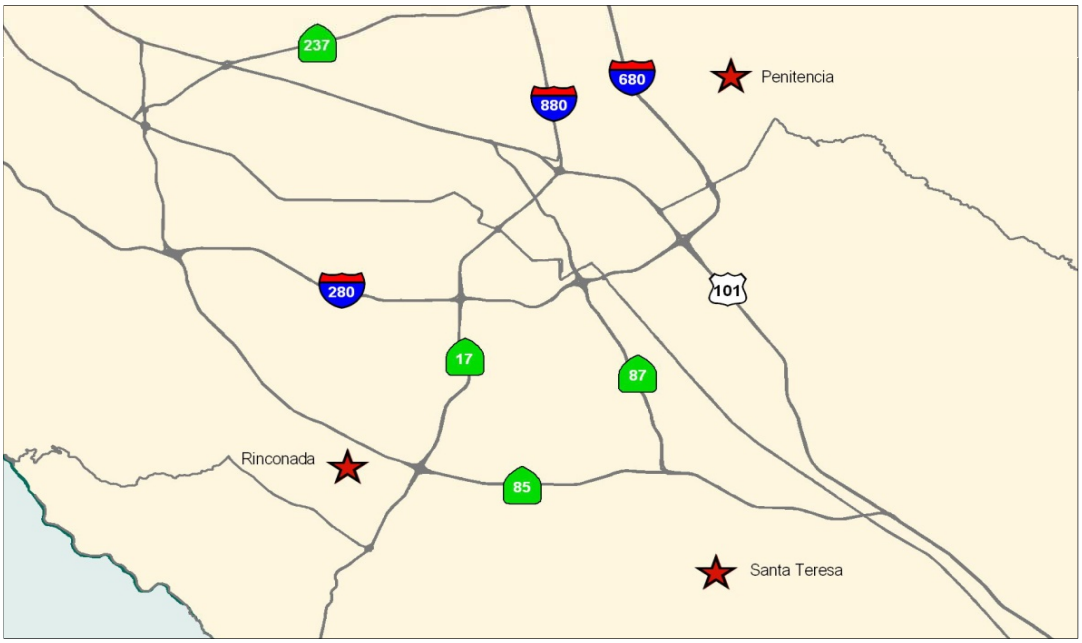
Project	**Fluoridation at Water Treatment Plants**
Program	Water Supply – Treatment
Priority No.	51
Project No.	93084011
District Contact	Katherine Oven koven@valleywater.org

Chemical storage tank and associated hardware will be installed at the water treatment plants for the fluoridation process

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at the water treatment plants to provide fluoridation facilities that will include fluorosilicic acid storage tanks, tank foundations, chemical feed facilities, spill containment, storage and feed equipment areas, piping, online fluoride analyzers, and accessories.

PROJECT LOCATION

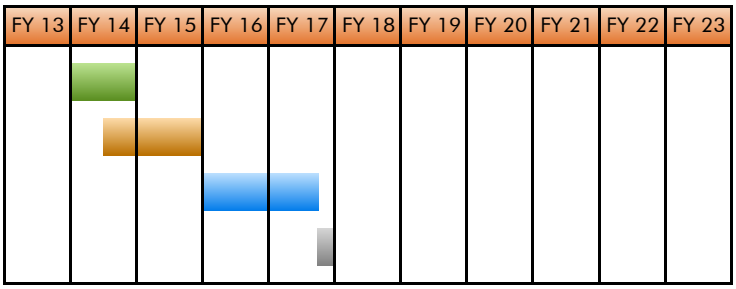


★ Project Location

SCHEDULE & STATUS

July 2014 to June 2017

Phase	Cost
Plan	290
Design	790
Construct	5,250
Closeout	85
	6,415



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
93084011-Fluoridation at Water Treatment Plants	0	0	357	723	4,750	585	0	0	6,415
with inflation	0	0	357	782	5,073	684	0	0	6,896

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
93084011-Fluoridation at Water Treatment Plants	0	0	0	357	782	5,073	684	0	0	6,896

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	4,496
The Health Trust	1,000
First 5 of Santa Clara County	900
California Dental Association Foundation	500
Total	6,896

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $1,000,000 per year, beginning in FY 2018.

USEFUL LIFE:

Fluoride System: 10 years
Bulk Storage Tanks: 20 years

Project	**Infrastructure Reliability**
Program	Water Supply – Treatment
Priority No.	30
Project No.	93504001
District Contact	Katherine Oven koven@valleywater.org

The District will work collaboratively with retailers to identify infrastructure reliability improvements such as an emergency well field, similar to the field shown here.

PROJECT DESCRIPTION

This project implements the Infrastructure Reliability Master Plan created to ensure the District's water supply infrastructure is reliable under a variety of current and future operational scenarios and outages. The plan will evaluate raw and treated water systems in both North and South County. It will plan for system outages and assess strategic infrastructure projects such as interties and new customer connections. The project will:

- Set level of service goals or operating strategies for a range of system outages
- Quantify impacts for a range of system outages
- Address system capacity constraints and new customer connections
- Identify improvements that will help prevent or accommodate system outages, and help meet level of service goals

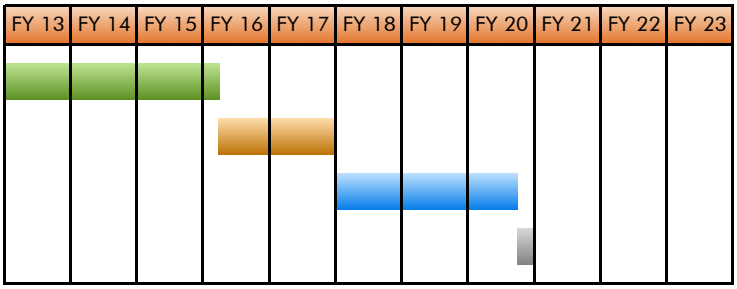
PROJECT LOCATION

No project map is provided. Potential project locations countywide.

SCHEDULE & STATUS

July 2010 to June 2020

Phase	Cost
Plan	2,346
Design	1,973
Construct	14,100
Closeout	300
	18,719



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
93504001-Infrastructure Reliability	101	115	1,401	761	975	975	4,700	9,700	18,728
with inflation	101	115	1,401	823	1,097	1,141	5,240	11,224	21,142

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
93504001-Infrastructure Reliability	188	115	87	1,314	823	1,097	1,141	5,240	11,224	21,142

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	21,142
Other Funding Source	0
Total	21,142

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: 30+ Years

Project IRP2 WTP Operations Buildings Seismic Retrofit
Program Water Supply - Treatment **Priority No.** 70
District Contact Katherine Oven koven@valleywater.org **Project No.** 93764003

The RWTP control building is one of the four buildings that will be studied and possibly retrofitted to meet safety requirements

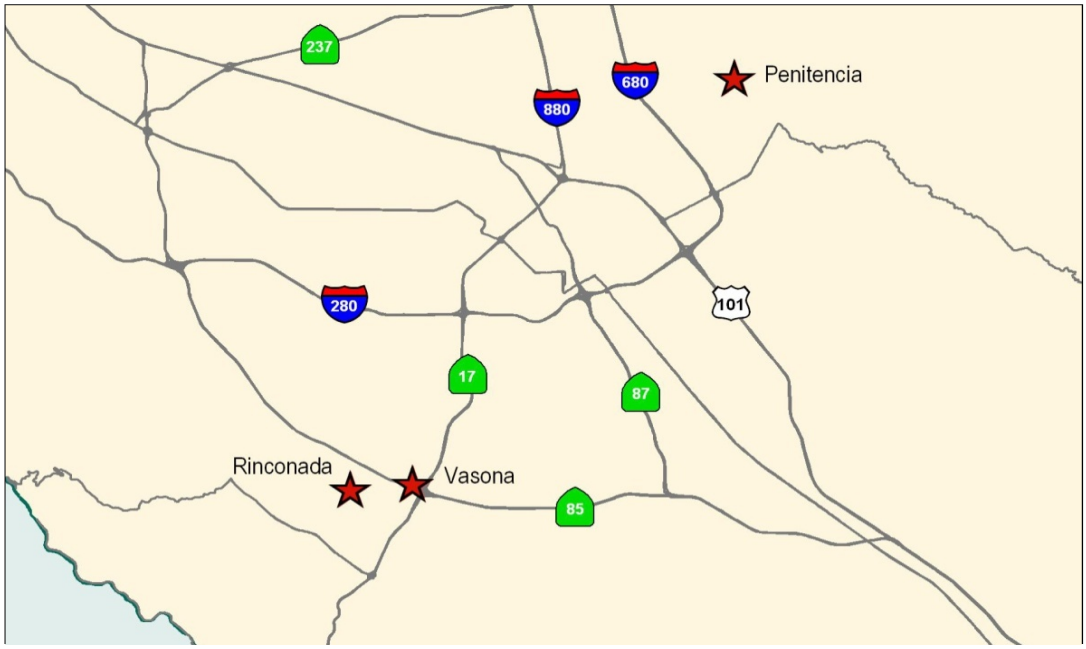
The PWTP control building is another of the four buildings that will be studied and possibly retrofitted to meet safety requirements

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements, including possible seismic retrofitting of two water treatment plant operations buildings and two buildings at the Vasona Pump Station that were built prior to 1980, as defined in the Water Infrastructure Reliability Plan, Phase 2 (IRP2), to ensure a healthy and safe work environment for employees and provide for continued functionality of these critical facilities after a major earthquake.

In addition, this Project will consider some non-structural elements of the Rinconada Water Treatment Plant (RWTP) Control Building, such as space reallocation, ADA improvements, and HVAC system rehabilitation.

PROJECT LOCATION

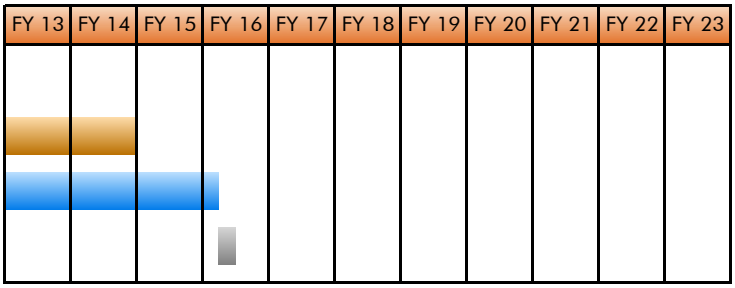


Project Location

SCHEDULE & STATUS

January 2008 to October 2015

Phase	Cost
Plan	1,534
Design	2,438
Construct	11,351
Closeout	150
	15,473



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
93764003-IRP2 WTP Operations Buildings Seismic Retrofit	1,469	2,328	9,995	1,491	190	0	0	0	15,473
with inflation	1,469	2,328	9,995	1,609	214	0	0	0	15,615

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
93764003-IRP2 WTP Operations Buildings Seismic Retrofit	4,314	0	517	9,478	1,609	214	0	0	0	15,615

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	15,615
Other Funding Source	0
Total	15,615

OPERATING COST IMPACTS

Completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not alter the existing modes of operation. However, seismic retrofit will reduce or avoid structural damages and reduce the cost of post-earthquake repairs.

USEFUL LIFE: 50+ Years

Project	**PWTP Clearwell Recoating and Repair**
Program	Water Supply – Treatment
Priority No.	68
Project No.	93234043
District Contact	Katherine Oven koven@valleywater.org

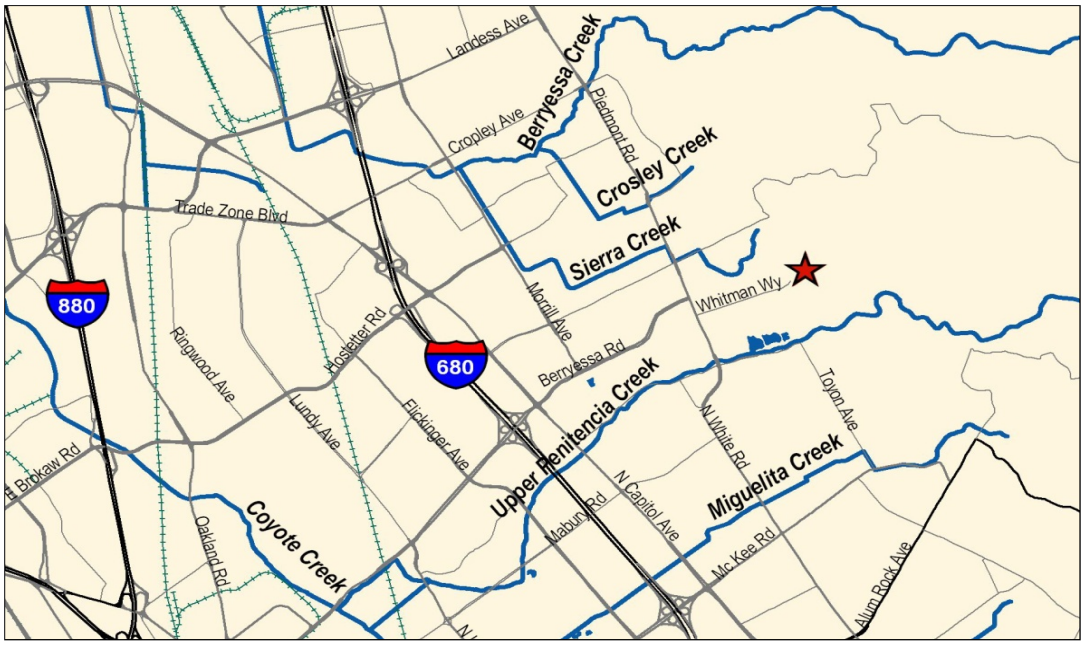
Active corrosion of the rafters and rafter support

PROJECT DESCRIPTION

This project plans, designs, and constructs corrosion repairs to the existing clearwell at Penitencia Water Treatment Plant (PWTP) to accomplish the following objectives:

- Extend the life of the PWTP Clearwell by removing as much corrosion as possible and recoating surfaces as necessary.
- Evaluate the structural condition of the rafters and supports as identified in the January 2009 report by Bay Area Coating Consultants.

PROJECT LOCATION

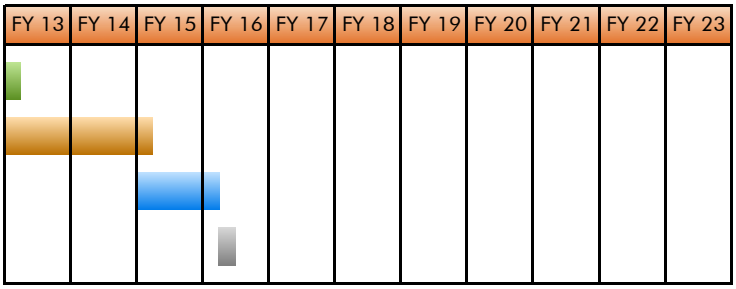


★ Project Location

SCHEDULE & STATUS

July 2010 to November 2015

Phase	Cost
Plan	563
Design	753
Construct	2,990
Closeout	15
	4,321



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
93234043-PWTP Clearwell Recoating and Repair	571	778	228	2,712	78	0	0	0	4,367
with inflation	571	778	228	2,838	88	0	0	0	4,502

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
93234043-PWTP Clearwell Recoating and Repair	1,408	186	245	0	2,821	88	0	0	0	4,502

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	4,502
Other Funding Source	0
Total	**4,502**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs as it does not alter existing modes of operation.

USEFUL LIFE: 15 Years

Project	**PWTP Water Pumps Modification**
Program	Water Supply – Treatment
Priority No.	75
Project No.	93234042
District Contact	Katherine Oven koven@valleywater.org

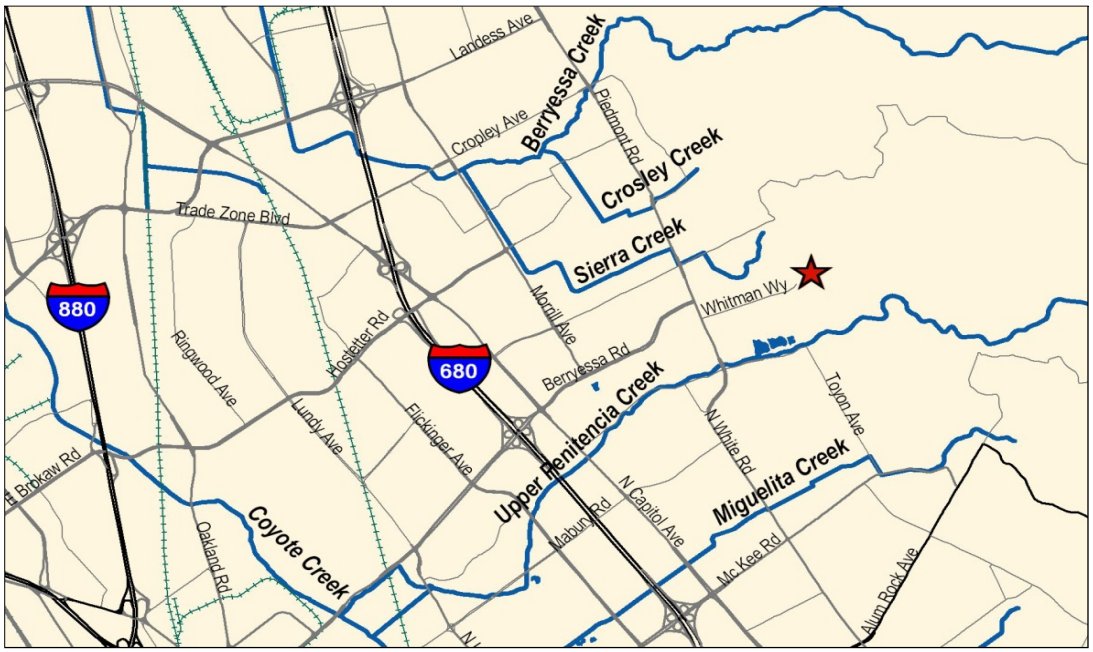
Two plant water pumps and three cooling water pumps supply water used at the Penitencia Water Treatment Plant.

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Penitencia Water Treatment Plant (PWTP) pumps to accomplish the following objectives:

- Increase operating capacity of the plant water pumps.
- Increase operating capacity of the cooling water pumps.
- Meet plant water demands.
- Improve operational reliability.

PROJECT LOCATION

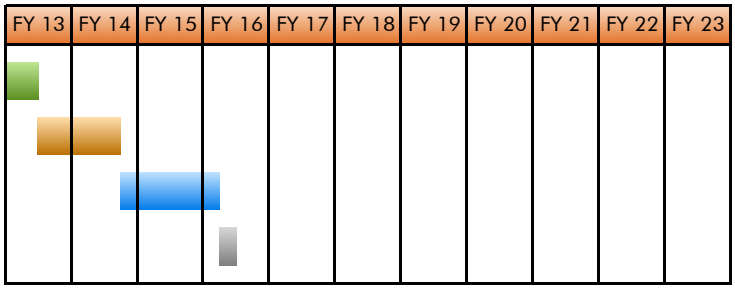


★ Project Location

SCHEDULE & STATUS

November 2009 to December 2015

Phase	Cost
Plan	458
Design	731
Construct	2,272
Closeout	16
	3,477



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
93234042-PWTP Water Pumps Modification	248	617	2,171	337	106	0	0	0	3,479
with inflation	248	617	2,171	364	119	0	0	0	3,520

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
93234042-PWTP Water Pumps Modification	2,745	0	1,880	291	364	119	0	0	0	3,520

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,520
Other Funding Source	0
Total	3,520

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 30 Years

Project	**RWTP FRP Residuals Management**
Program	Water Supply – Treatment
Priority No.	87
Project No.	93294051
District Contact	Katherine Oven koven@valleywater.org

RWTP washwater recovery basins will be retrofitted.

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Rinconada Water Treatment Plant (RWTP) residuals management processes, consistent with the Facility Renewal Program (FRP) to accomplish the following objectives:

- Extend the useful life of the treatment plant.
- Improve the efficiency of the residual management processes.
- Minimize risk of discharge violations.
- Improve the reliability of RWTP.

PROJECT LOCATION

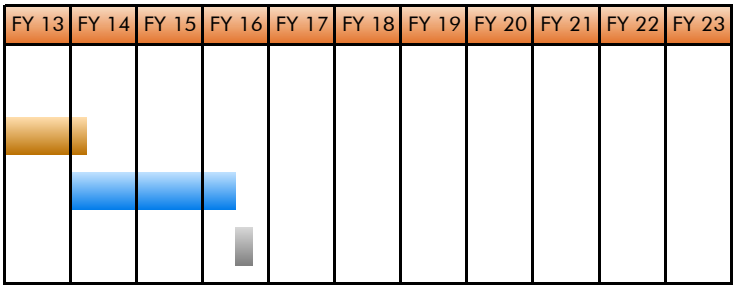
★ Project Location

SCHEDULE & STATUS

July 2008 to September 2015

Design and Construction phases overlap due to a phased approach to managing the project.

Phase	Cost
Plan	1,400
Design	897
Construct	22,822
Closeout	80
	25,199



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
93294051-RWTP FRP Residuals Management	3,190	639	21,122	1,390	310	0	0	0	26,651
with inflation	3,190	639	21,122	1,503	349	0	0	0	26,803

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
93294051-RWTP FRP Residuals Management	3,580	311	62	21,060	1,503	349	0	0	0	26,803

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	26,803
Other Funding Source	0
Total	26,803

OPERATING COST IMPACTS

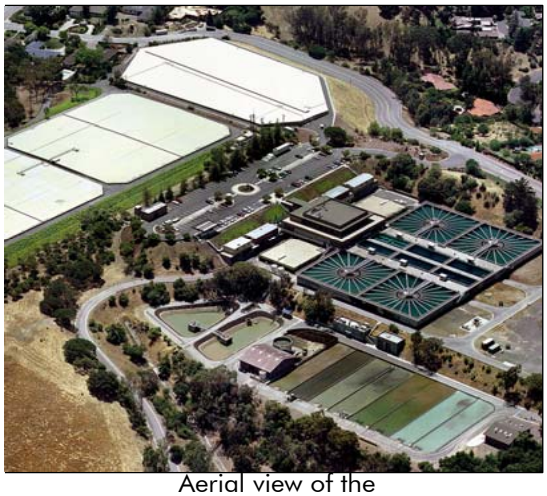
The completion of this project is anticipated to decrease annual operating costs by approximately $200,000 per year starting in 2017.

USEFUL LIFE:

Structures – 50 Years; Mechanical Equipment – 15 Years; Electrical Equipment – 10 Years

Project RWTP Reliability Improvement
Program Water Supply - Treatment
District Contact Katherine Oven koven@valleywater.org

Priority No. 46
Project No. 93294057



Aerial view of the
Rinconada Water Treatment Plant facing west

Artist rendering of the aerial view of the Rinconada
Water Treatment Plant facing south after construction

PROJECT DESCRIPTION

This project plans, designs, and constructs new faciliteis at Rinconada Water Treatment Plant (RWTP) that will improve plant reliability by accomplishing the following objectives:

- Construct a new raw water ozonation facility
- Construct a new flocculation and plate settler clarification facility
- Implement a dual media filtration system
- Increase plant capacity to 100 MGD

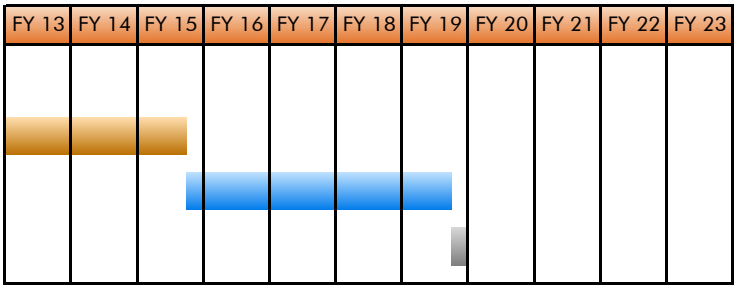
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2009 to June 2019

Phase	Cost
Plan	1,544
Design	17,417
Construct	164,501
Closeout	120
	183,582



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
93294057-RWTP Reliability Improvement	1,687	9,109	8,310	48,170	51,120	50,110	15,160	120	183,786
with inflation	1,687	9,109	8,310	50,659	54,639	54,687	16,868	152	196,111

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
93294057-RWTP Reliability Improvement	2,777	8,406	387	7,923	50,659	54,639	54,687	16,868	152	196,111

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	196,111
Other Funding Source	0
Total	196,111

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $1.4 million per year, beginning in FY 2020. Increases are for routine maintenance and operation of new equipment.

USEFUL LIFE:

Media – 20 Years; Structures – 50 Years; Equipment – 15 Years

Project	**RWTP Treated Water Valves Upgrade**
Program	Water Supply – Treatment
Priority No.	87
Project No.	93294056
District Contact	Katherine Oven koven@valleywater.org

Example of a valve to be replaced or upgraded

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Rinconada Water Treatment Plant (RWTP) including seismically strengthening the chemical storage structures; replacing/upgrading the valves and appurtenances used to control treated water at the clearwells and the Ronconada Reservoir; repairing a damaged baffle wall in the Rinconada Reservoir; and installing a 48-inch magnetic flow meter on the treatment plant's treated water effluent pipeline. Consistent with the Facility Renewal Program (FRP), this project will accomplish the following objectives:

- Ensure plant operational reliability.
- Improve ability to maintain the plant.
- Allow for better isolation of the treated water control valves for future work.
- Achieve greater accuracy in measuring treated water deliveries.

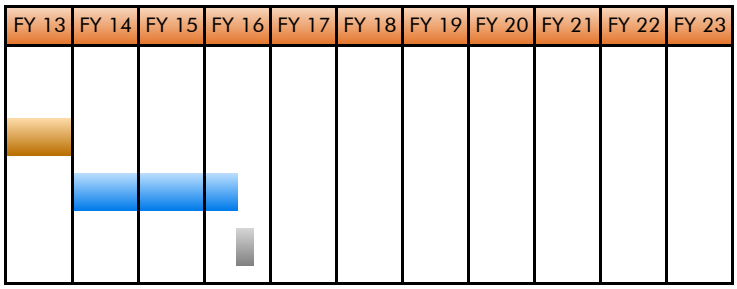
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2009 to February 2016

Phase	Cost
Plan	483
Design	1,194
Construct	7,035
Closeout	25
	8,737



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
93294056-RWTP Treated Water Valves Upgrade	998	685	6,117	807	145	0	0	0	8,752
with inflation	998	685	6,117	873	163	0	0	0	8,836

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
93294056-RWTP Treated Water Valves Upgrade	1,128	700	145	5,972	873	163	0	0	0	8,836

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	8,836
Other Funding Source	0
Total	8,836

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operations.

USEFUL LIFE: 40 Years

Project	**Small Capital Improvements, Water Treatment**
Program	Water Supply – Treatment
Priority No.	67
Project No.	93764004
District Contact	Deputy of Water Utility O&M info@valleywater.org

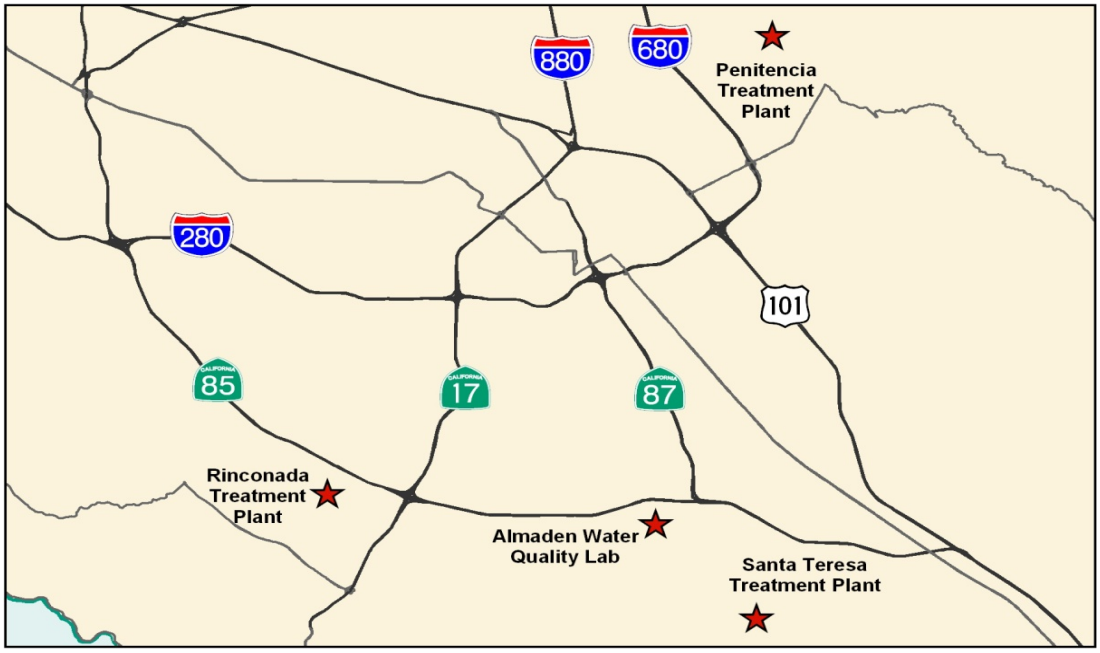
Sludge pond sediment removal at Santa Teresa Water Treatment Plant

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the lifetime of an asset. This project implements a systematic approach of equipment replacement and renewal at the three water treatment plants and laboratory by designing and constructing improvements identified as part of the District's 10-year asset management program. Typical activities included in this project include pump, motor, instrumentation and valve replacement; chemical tank repairs; and large-scale renewal and replacement activities like clarifier mechanism overhaul and replacement. Planned projects to complete in FY 2014 include:

- Purchase and install ozone ambient analyzers at STWTP and PWTP
- Remove cone valve actuator at STWTP
- Install tank liner on OCL tank at STWTP
- Replace ozone blower at STWTP
- Replace water pump and motor for backwash at RWTP
- Design freight elevator at RWTP
- Purchase and install back-up generator at Campbell Well Field

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
93764004-Small Capital Improvements, Water Treatment	n/a	1,000	3,299	3,176	1,674	1,627	1,316	11,565	23,657
with inflation	n/a	1,000	3,299	3,435	1,883	1,903	1,601	15,570	28,691

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
93764004-Small Capital Improvements, Water Treatment	n/a	1,065	0	3,299	3,435	1,883	1,903	1,601	15,570	28,756

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Excess funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	28,756
Other Funding Source	0
Total	**28,756**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

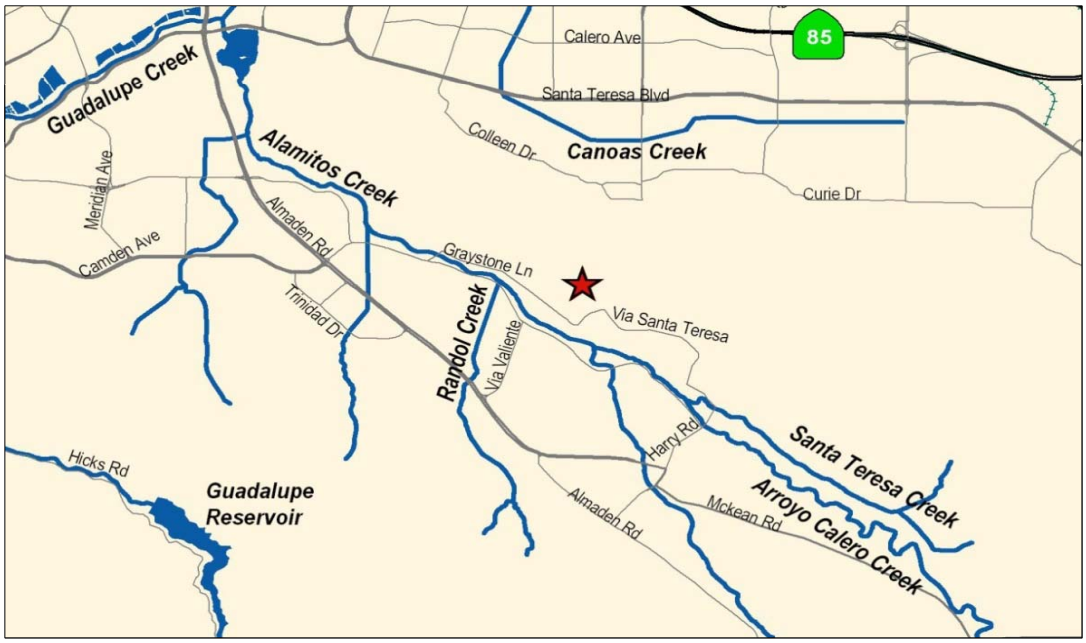
Project	**STWTP Incompatible Materials**
Program	Water Supply – Treatment
Priority No.	66
Project No.	93284030
District Contact	Katherine Oven koven@valleywater.org

New double contained piping installed to separate incompatible chemicals

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Santa Teresa Water Treatment Plant (STWTP) to separate incompatible chemicals in the chemical feed area, chemical trenches and storage facilities to meet Hazardous Material (HAZMAT) storage regulations.

PROJECT LOCATION



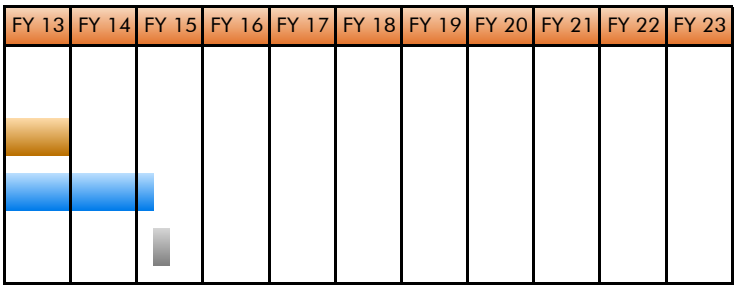
★ Project Location

SCHEDULE & STATUS

July 2001 to November 2014

Planning phase is complete.

Phase	Cost
Plan	139
Design	2,947
Construct	12,036
Closeout	10
	15,132



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
93284030-STWTP Incompatible Materials	9,133	3,595	1,183	151	0	0	0	0	14,062
with inflation	9,133	3,595	1,183	163	0	0	0	0	14,074

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
93284030-STWTP Incompatible Materials	9,398	3,330	0	1,183	163	0	0	0	0	14,074

Adjusted Budget includes adopted budget plus a planned budget adjustment for $316,000.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	14,074
Other Funding Source	0
Total	14,074

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $4,500 per year, beginning in FY 2015. This project primarily replaces existing equipment with similar new equipment and a net increase of four mixers, which will require additional preventive maintenance.

USEFUL LIFE:

Mechanical Elements – 35+ Year; Structural Elements – 50+ Years

Project	**Water Protection**
Program	Water Supply – Treatment
Priority No.	34
Project No.	94084005
District Contact	Katherine Oven koven@valleywater.org

Security inspection of vehicles entering Penitencia Water Treatment Plant.

PROJECT DESCRIPTION

This project plans, designs, and constructs security modifications at the District's Water Utility facilities, in response to a security vulnerability assessment completed in 2003, to improve security and reduce terrorist threats to water service reliability.

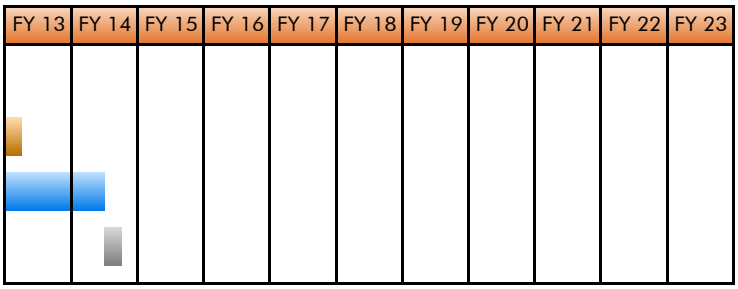
PROJECT LOCATION

This project will construct security improvements at the District's three water treatment plants and other Water Utility facilities. No project map is provided.

SCHEDULE & STATUS

June 2004 to March 2014

Phase	Cost
Plan	1,451
Design	896
Construct	7,266
Closeout	100
	9,713



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
94084005-Water Protection	2,427	6,836	582	0	0	0	0	0	9,845
with inflation	2,427	6,836	582	0	0	0	0	0	9,845

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
94084005-Water Protection	7,730	1,940	407	175	0	0	0	0	0	9,845

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	9,804
San Benito County Water District	41
Total	9,845

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs, as the project does not significantly alter the existing facilities or modes of operations.

USEFUL LIFE: Not Available

Project Silicon Valley Advanced Water Purification Center
Program Water Supply - Recycled Water **Priority No.** 17
District Contact Katherine Oven koven@valleywater.org **Project No.** 91184008

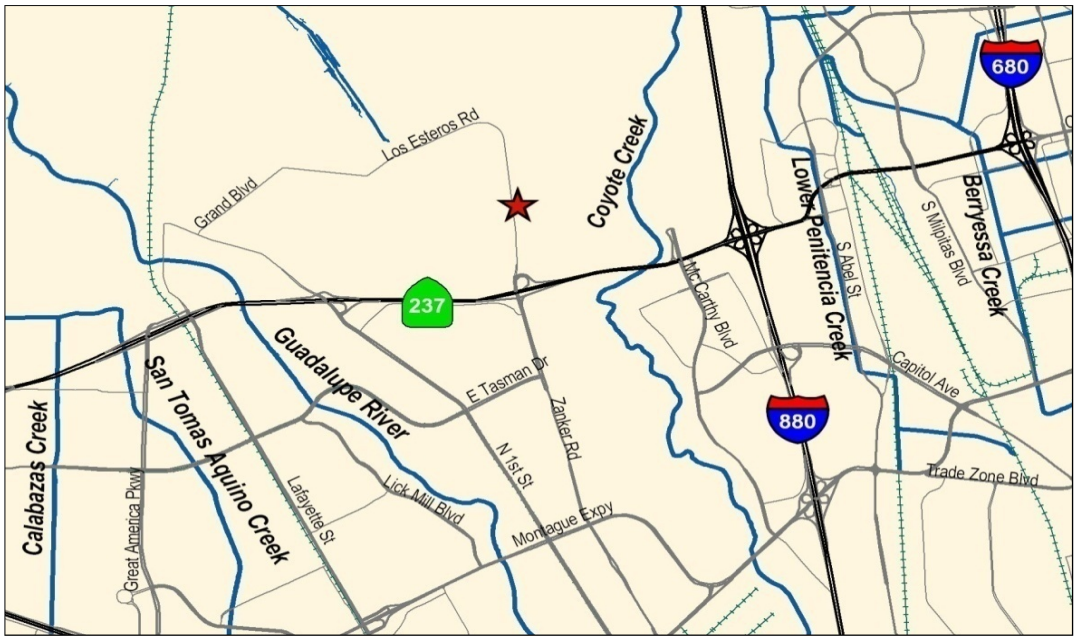
Panoramic view of the Silicon Valley Advanced Water Purification Center

PROJECT DESCRIPTION

This project plans, designs, and constructs a 10-mgd (million-gallons-per-day) Silicon Valley Advanced Water Purificaton Center (SVAWPC) within the footprint of the South Bay Water Recycling's Water Pollution Control Plant (WPCP) in San Jose, to accomplish the following objectives:

- Improve recycled water quality to enhance marketability.
- Increase the operational reliability and flexibility of recycled water.
- Retain existing customers who may have water quality (especially salinity) issues.
- Improve public acceptance of recycled water.
- Maximize water recycling alternatives.
- Reduce fresh water effluent discharges into San Francisco Bay to protect endangered species.
- Increase tertiary treatment capacity for the water pollution control plant.
- Preserve options for future groundwater recharge and reuse.

PROJECT LOCATION



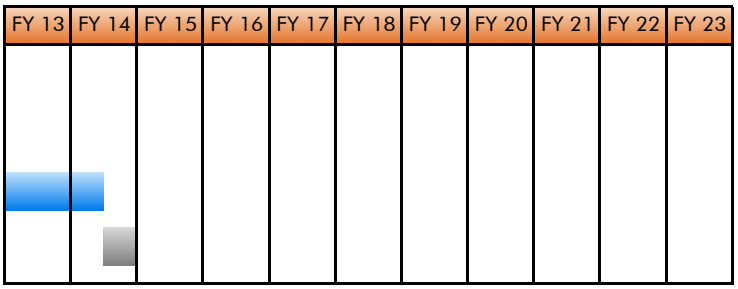
★ Project Location

SCHEDULE & STATUS

January 2004 to April 2014

Construction in FY 2011 begins with 6 months of early earth work.

Phase	Cost
Plan	2,452
Design	3,093
Construct	62,991
Closeout	52
	68,588



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
91184008-Silicon Valley Advanced Water Purification Center	62,229	5,082	1,362	0	0	0	0	0	68,673
with inflation	62,229	5,082	1,362	0	0	0	0	0	68,673

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
91184008-Silicon Valley Advanced Water Purification Center	62,891	5,083	663	699	0	0	0	0	0	68,673

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	45,530
City of San Jose	9,598
California Department of Water Resources - Prop 50	2,935
California Department of Water Resources - Prop 84	2,485
United States Bureau of Reclamation (USBR) ARRA	8,125
Total	**68,673**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase the District's operating costs by approximately $1.75 million per year, beginning in FY 2015. The City of San Jose will also be responsible for contributing the same amount to cover total annual operations costs of approximately $3.5 million. Total cost includes labor, membranes replacement, energy, UV lamp replacement, chemicals, and other necessary items.

USEFUL LIFE: 20-30 Years

Project	**South County Recycled Water Pipeline**
Program	Water Supply – Recycled Water
Priority No.	16
Project No.	91094007s
District Contact	Katherine Oven koven@valleywater.org

Recycled water purple pipeline waiting to be laid during construction of Immediate Term project.

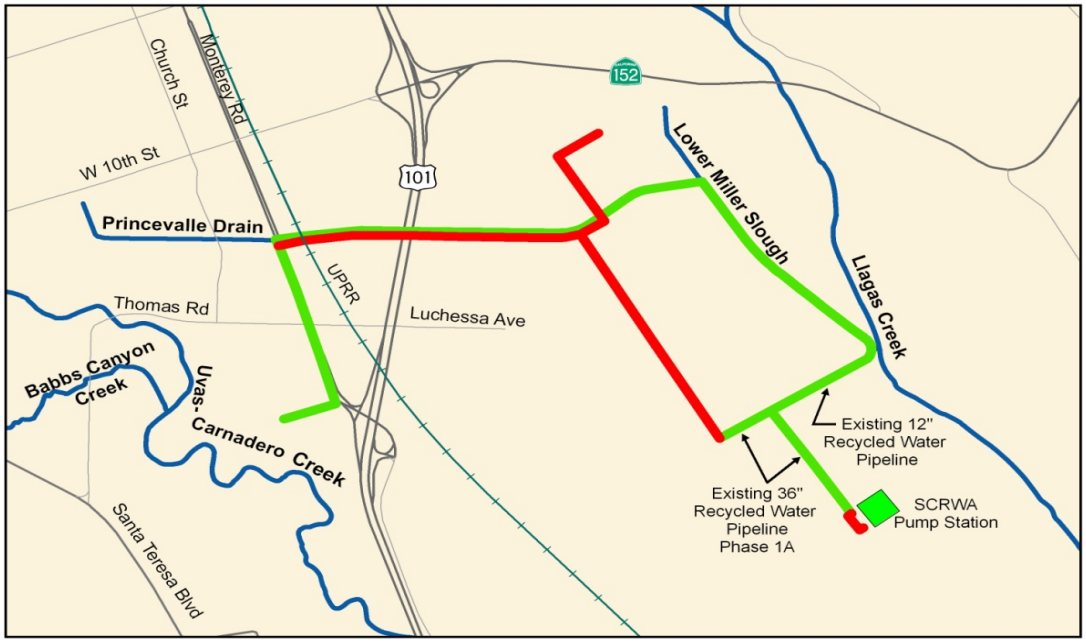
PROJECT DESCRIPTION

This project plans, designs, and constructs water recycling systems based on the South County Recycled Water Master Plan report that the District and South County Regional Wastewater Authority (SCRWA) Boards accepted in December 2004 to operate and expand the South County Recycled Water System.

The current Master Plan report presents a 20-year capital program for expanding water recycling in South County in three phases; Immediate Term, Short Term, and Long Term:

- Already complete: Gilroy Pipelines (Immediate Term) includes design and construction of recycled water storage, pumping, and distribution facilities for agricultural use near the SCRWA treatment plant (91094007).
- Currently underway: Gilroy Pipelines and Reservoir (Short Term) Phase 1A approximately 3000 feet of 30-inch and 36-inch pipeline is complete. Phase 1B will construct an additional 1400 linear feet of pipeline. Together these two projects will improve system redundancy, reliability, and capacity.
- Currently there is no plan to implement the long term component of the 2004 master plan.

PROJECT LOCATION



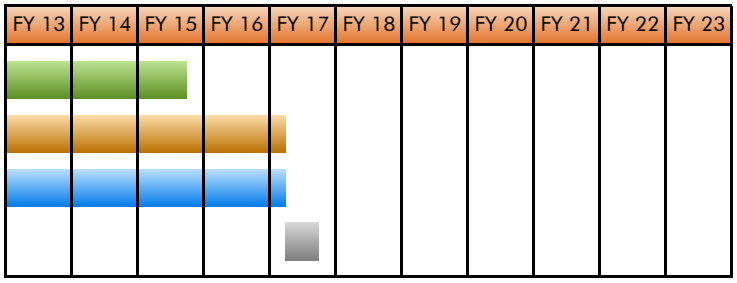
Project Location

SCHEDULE & STATUS

July 2005 to April 2017

The display shows Phase 1B of the Short-Term project only. The Immediate-Term and Short-Term Phase 1A projects are complete. Planning for this project was done in a separate project.

Phase	Cost
Plan	4,200
Design	5,339
Construct	10,667
Closeout	179
	20,385



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
91094007-Recycled Water South County Masterplan - Immediate Term	3,257	0	0	0	0	0	0	0	3,257
with inflation	3,257	0	0	0	0	0	0	0	3,257
91094008-Recycled Water South County Masterplan - Short Term 1A	5,391	0	0	0	0	0	0	0	5,391
with inflation	5,391	0	0	0	0	0	0	0	5,391
91094009-South County Recycled Water Pipeline - Short Term 1B	381	994	1,360	1,353	7,000	700	0	0	11,788
with inflation	381	994	1,360	1,463	7,492	819	0	0	12,509
TOTAL	**9,029**	**0**	**1,360**	**1,353**	**7,000**	**700**	**0**	**0**	**20,436**
with inflation	**9,029**	**0**	**1,360**	**1,463**	**7,492**	**819**	**0**	**0**	**21,157**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
91094007-Recycled Water South County Masterplan - Immediate Term	3,257	0	0	0	0	0	0	0	0	3,257
91094008-Recycled Water South County Masterplan - Short Term 1A	10,443	0	5,052	0	0	0	0	0	0	10,443
91094009-South County Recycled Water Pipeline - Short Term 1B	425	953	3	1,357	1,463	7,492	819	0	0	12,509
TOTAL	**14,125**	**953**	**5,055**	**1,357**	**1,463**	**7,492**	**819**	**0**	**0**	**26,209**

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding exceeds planned expenditures for the Short-Term 1A project by aproximately $5,052,000. Excess funding will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	24,206
South County Regional Wastewater Authority	708
United States Bureau of Reclamation (USBR) ARRA	1,295
Other Funding Sources	0
Total	**26,209**

OPERATING COST IMPACTS

Estimated District share of the operating and maintenance costs are $8,000 per year for the Immediate-Term phase, beginning in FY 2007 and an additional $20,000 for the Short-Term phase, beginning in FY 2018. Increases for Immediate Term are primarily labor costs for operating the new 3mg reservoir and its pump station. Increases for Short Term are labor and materials to maintain the 42,000 feet of new pipeline, exercising valves and cathodic protection.

USEFUL LIFE: Pipelines – 50 Year; Pumps – 20 Years

Flood Protection Capital Improvements

FLOOD PROTECTION OVERVIEW

The District manages approximately 800 miles of creeks in Santa Clara County to meet the Board's Ends Policy E–3, "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations." The district's goals are further defined in E-3.1, "Provide natural flood protection for residents, businesses, and visitors" and E-3.2, "Reduced potential for flood damages." The 800 miles of creeks are located in five watersheds: Lower Peninsula, West Valley, Guadalupe, Coyote, and Uvas/Llagas. The District administers an asset management program for its flood protection infrastructure. The program includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended over its useful life.

Fifty years of working for flood protection has significantly reduced the intensity and frequency of flooding in Santa Clara County. By 2005 the District had provided flood protection to 93,253 of the 166,526 parcels in the flood plain and another 6,642 have been protected since then.

The voters in Santa Clara County have supported the District's flood protection efforts by approving benefit assessment funding in 1982, 1986, and 1990. Voters approved a special tax in 2000 and 2012 to fund the continuation of the District's flood protection capital improvements, specifically, moving upstream from the completed downstream work or starting new work on creeks that have not had flood protection work.

Lower Peninsula Watershed

Major Capital Improvements Completed

- Adobe Creek from El Camino to Rhus Ridge
- Barron Creek
- Matadero Creek from Palo Alto Flood Basin to Barron Creek
- Stevens Creek from Highway 101 to Homestead Road

Major Capital Improvements Identified in the CIP

- Palo Alto Flood Basin Structure Improvements
- Permanente Creek from S.F. Bay to Foothill Expressway (Safe, Clean Water)
- San Francisquito Creek from S.F. Bay to Searsville Dam (Clean, Safe Creeks/Safe, Clean Water)

West Valley Watershed

Major Capital Improvements Completed

- Calabazas Creek from Guadalupe Slough to Miller Avenue
- San Tomas Creek from Southern Pacific Railroad to Cabrillo Avenue
- Saratoga Creek from San Tomas Creek to Lawrence Expressway

Major Capital Improvements Identified in the CIP

- Calabazas Creek, Miller Avenue to Wardell Road (Clean, Safe Creeks)
- Sunnyvale East and West Channels (Clean, Safe Creeks)

Guadalupe Watershed

Major Capital Improvements Completed

- Alamitos Creek
- Guadalupe River–Lower from Alviso Marina to Interstate 880

Major Capital Improvements Identified in the CIP

- Guadalupe River–Downtown from Interstate 880 to Interstate 280
- Guadalupe River–Upper, Interstate 280 to Blossom Hill Road (Clean, Safe Creeks/Safe, Clean Water)

Coyote Watershed

Major Capital Improvements Completed

- Coyote Creek from S.F. Bay to Montague Expressway
- Lower Penitencia Creek from Coyote Creek to Tasman Drive
- Lower Silver Creek from Coyote Creek to Interstate 680 (Reaches 1-3)
- Wrigley Ford Creek

Major Capital Improvements Identified in the CIP

- Berryessa Creek from Lower Penitencia Creek to Calaveras Boulevard
- Berryessa Creek from Calaveras Boulevard to Old Piedmont Road (Clean Safe Creeks)
- Coyote Creek Montague Expressway to Interstate 280 (Clean, Safe Creeks)
- Upper Penitencia Creek from Coyote Creek to Dorel Drive (Safe, Clean Water)
- Lower Silver Creek from Interstate 680 to Lake Cunningham (Reaches 4-6)

Uvas/Llagas Watershed

Major Capital Improvements Completed

- Llagas Creek–Lower from Pajaro River to Buena Vista Road
- Uvas Creek

Major Capital Improvements Identified in the CIP

- Llagas Creek–Upper, Buena Vista Road to Wright Avenue (Clean, Safe Creeks/Safe, Clean Water)
- Llagas Creek Capacity Restoration from Buena Vista Road to Pajaro River

Multiple Watersheds

Major Capital Improvements Identified in the CIP

- San Francisco Bay Shoreline (Safe, Clean Water)

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to ensure that the new flood protection projects proposed to be added to the Fiscal Year 2013/14 CIP reflect the Board's priorities. The priority criteria used are included in Appendix A.

A financial analysis of the Watershed and Steam Stewardship Fund and Safe, Clean Water Fund, the funding sources for flood protection capital improvements, was conducted to determine if there are limitations to funding all of the projects proposed for the Fiscal Year 2013/14 CIP. Results of the prioritization process and financial analysis are summarized in Appendix B.

The watershed financial outlook is improved from recent years. The watersheds have benefited from higher than projected property tax revenue in fiscal year 2013. The District will also receive $25 million from DWR to complete construction of Lower Silver Creek, from I-680 to Lake Cunningham (Reaches 4-6) and Lake Cunningham projects.

For the past several years the District has made a concerted effort to reduce the watershed operations costs and believe that these reductions can be sustained over the next 5-10 years.

The voter approved Safe, Clean Water program will provide funding for some of the highest priority unfunded projects including:

- San Francisco Bay Shoreline - Design and Partial Construction of EIA 11 and Planning for other EIAs ($20 million)
- Upper Penitencia Creek, Coyote to Dorel Drive ($41.9 million)
- San Francisquito Creek, SF Bay to Middlefield Road ($35.5 million)
- Upper Llagas Creek, Buena Vista Road to Wright Avenue ($39 million)
- Upper Guadalupe River, I-280 to Blossom Hill Road ($18.3 million)

Delays in the federal funding for many of the USACE projects have extended the schedules beyond the dates committed by the District. Therefore, the District is evaluating the option of proceeding with the local funding option on several of these projects.

The following high priority flood protection projects, unfunded or partially funded, are of major concern to meet the Board's Ends Policy E–3, "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations."

Partially Funded and Unfunded CIP Projects

- San Francisco Bay Shoreline Project - except EIA 11 (Design and Construction is unfunded)
- Coyote Creek, Montague Expressway to Interstate 280 (Construction is unfunded)
- Upper Berryessa Creek, Interstate 680 to Old Piedmont Road (unfunded; $20 million)

Flood Protection Capital Improvements

The following table is a project funding schedule for flood protection capital improvements resulting from this year's priority process and financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2012/13.

Flood Protection Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY12	FY13	FY13 Unspent	FY14	FY15	FY16	FY17	FY18	FY19-28	TOTAL
	LOWER PENINSULA WATERSHED										
10394001	Palo Alto Flood Basin Structure Improvements	-	-	-	343	779	4,438	23	-	-	5,583
10244001s	Permanente Creek, SF Bay to Foothill Expressway	34,417	-	1,343	19,074	865	315	-	-	-	54,671
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	9,139	3,593	1,025	19,836	454	19,750	1,589	-	-	54,361
	WEST VALEY WATERSHED										
26104001s	Calabazas Creek, Miller Avenue to Wardell Road	13,835	-	1,148	-	-	-	-	-	-	13,835
26074002	Sunnyvale East and West Channels	11,863	3,746	-	13,712	27,259	11,793	-	-	-	68,373
	GUADALUPE WATERSHED										
30154013s	Guadalupe River–Downtown, I-880 to I-280	104,804	-	6,174	-	-	-	-	-	-	104,804
26154001s	Guadalupe River–Upper, I-280 to Blossom Hill Road	112,183	-	29,351	-	13,227	16,863	15,004	7,548	22,207	187,032
	COYOTE WATERSHED										
26174041s	Berryessa Creek, Calaveras Boulevard to Interstate 680	12,025	2,565	4,173	14,249	9,637	157	-	-	-	38,633
40174004	Berryessa Creek, Lower Penitencia Ck to Calaveras Blvd	37,880	1,535	10	464	260	9,522	719	730	242	51,352
26174043	Coyote Creek, Montague Expressway to Interstate 280	15,258	738	5,450	14,990	3,028	377	-	-	-	34,391
40264011	Lake Cunningham Improvements	333	552	116	2,175	4,175	-	-	-	-	7,235
40334005	Lower Penitencia Ck Capacity Restoration, Berryessa to Coyote Cks.	547	581	279	1,784	3,987	60	47	24	-	7,030
40264007s	Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	86,029	634	1,248	104	108	168	-	-	-	87,043
40324003s	Upper Penitencia Creek, Coyote Creek to Dorel Drive	17,434	-	1,771	80	1,181	1,228	1,399	11,957	37,943	71,222
	UVAS LLAGAS WATERSHED										
50284010	Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	3,466	1,202	600	6,931	1,262	1,957	322	-	-	15,140
26174051s	Llagas Creek–Upper, Buena Vista Road to Wright Avenue	24,611	1,987	5	34,638	26,809	22,079	234	-	-	110,358
	MULTIPLE WATERSHEDS										
00044026s	San Francisco Bay Shoreline	12,243	-	599	757	4,326	4,499	4,365	4,461	4,560	35,211
	TOTAL	496,067	17,133	53,292	129,137	97,357	93,206	23,702	24,720	64,952	946,274

The following table shows funding requirements from each funding source for flood protection capital improvements.

Flood Protection – Funding Sources ($K)

Fund Number	PROJECT NAME	Through FY12	FY13	FY13 Unspent	FY14	FY15	FY16	FY17	FY18	FY19-28	TOTAL
12	Watershed Stream Stewardship Fund	288,487	4,504	11,001	12,218	10,571	16,145	1,111	754	242	334,032
26	Safe, Clean Water and Natural Flood Protection Fund	207,580	12,629	42,291	116,919	86,786	77,061	22,591	23,966	64,710	612,242
	TOTAL	496,067	17,133	53,292	129,137	97,357	93,206	23,702	24,720	64,952	946,274

FY 2012/13 Funds to be reappropriated

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Project	**Palo Alto Flood Basin Structure Improvements**
Program	Flood Protection - Lower Peninsula Watershed
Priority No.	93
Project No.	10394001
District Contact	Melanie Richardson mrichardson@valleywater.org

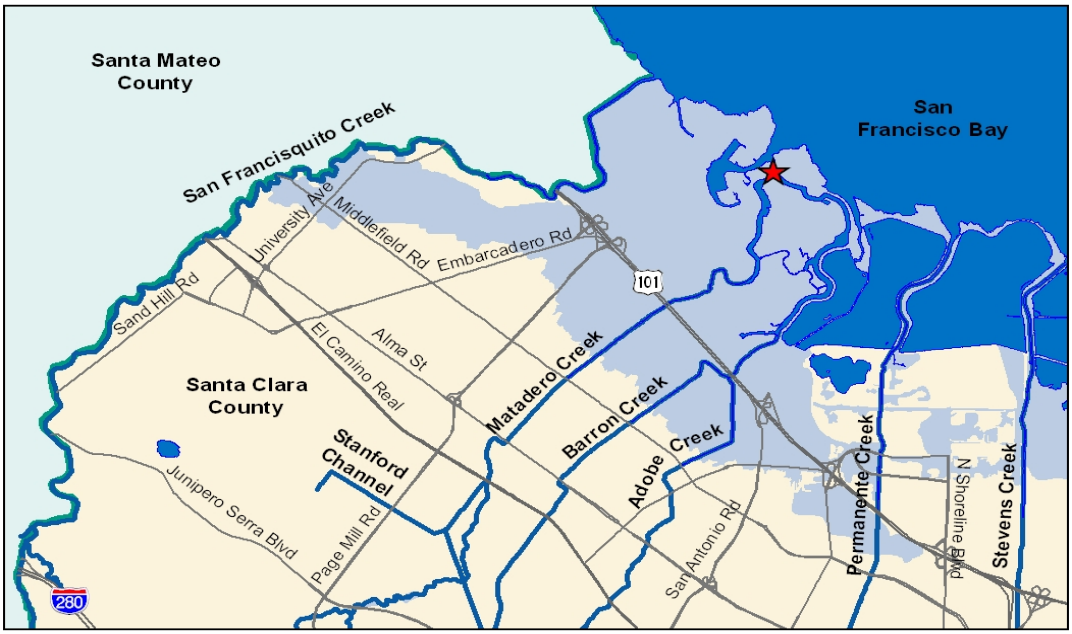
View from the west side of the Palo Alto tide gates facing east

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Palo Alto Flood Basin structure to accomplish the following objectives:

- Replace or repair the existing structure to improve the functionality of the flood barrier system
- Reduce the possibility of flooding in lower reaches of Matadero, Adobe, and Barron Creeks
- Prevent environmental impacts due to submergence of habitat areas within the Basin for Salt Marsh Harvest Mouse, California Clapper Rail bird and the Black Rail bird
- Prevent impacts due to sea level rise or a 100-year fluvial flood

PROJECT LOCATION

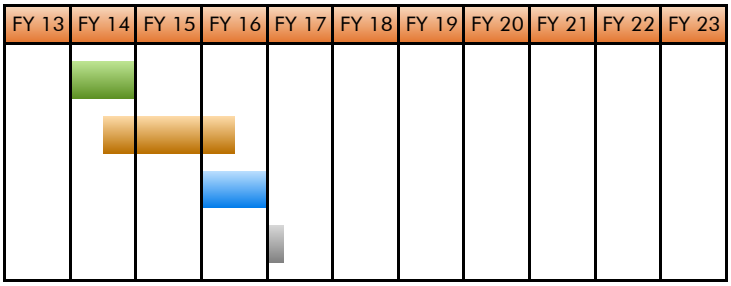


★ Project Location

SCHEDULE & STATUS

July 2014 to September 2016

Phase	Cost
Plan	443
Design	700
Construct	4,080
Closeout	20
	5,243



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
10394001-Palo Alto Flood Basin Structure Improvements	0	0	343	720	4,160	20	0	0	5,243
with inflation	0	0	343	779	4,438	23	0	0	5,583

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
10394001-Palo Alto Flood Basin Structure Improvements	0	0	0	343	779	4,438	23	0	0	5,583

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed and Stream Stewardship Fund	5,583
Other Funding Sources	0
Total	5,583

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: 50 Years

Project	**Permanente Creek, San Francisco Bay to Foothill Expressway**
Program	Flood Protection – Lower Peninsula Watershed
Priority No.	94
Project No.	10244001s
District Contact	Melanie Richardson mrichardson@valleywater.org

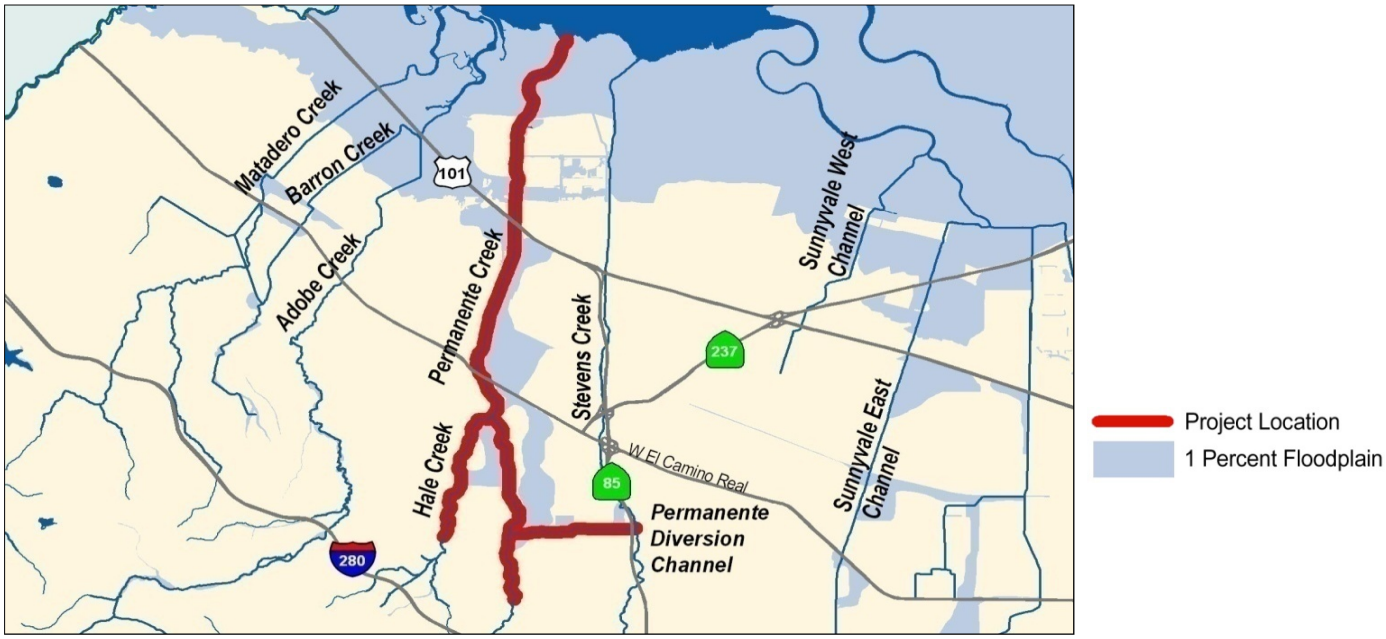
Permanente Creek, looking downstream at the golf course foot bridge

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along 10.6 miles of Permanente Creek, from San Francisco Bay to Foothill Expressway, Hale Creek from Foothill Expressway to its confluence with Permanente Creek, and the diversion structure between Permanente and Stevens Creeks, to accomplish the following objectives:

- Provide flood protection to 1,664 parcels, including Middlefield Road and Central Expressway.
- Reduce erosion and sedimentation, reduce maintenance costs, and improve safety and stability of the failing channel on Permanente Creek from the San Francisco Bay to Foothill Expressway.
- Provide environmental restoration and enhancement benefits, where opportunities exist.
- Provide recreation enhancements, where opportunities exist.
- Provide natural flood protection by taking a multiple-objective approach.

PROJECT LOCATION

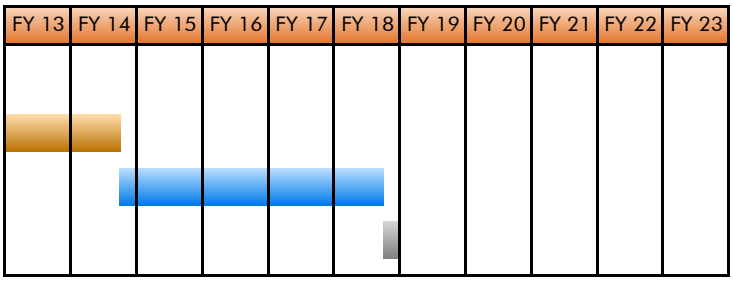


SCHEDULE & STATUS

July 2001 to June 2018

Construction includes multiple contract phases and three years of plant establishment monitoring.

Phase	Cost
Plan	12,136
Design	11,317
Construct	30,978
Closeout	60
	54,491



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
10244001-Permanente Ck, Bay to Foothill Expwy – Lower Peninsula Fund	17,365	10	0	0	0	0	0	0	17,375
with inflation	17,365	10	0	0	0	0	0	0	17,375
26244001-Permanente Ck, Bay to Foothill Expwy – Clean, Safe Creeks Fund	5,645	10,054	20,416	800	280	0	0	0	37,195
with inflation	5,645	10,054	20,416	865	315	0	0	0	37,295
TOTAL	23,010	10,064	20,416	800	280	0	0	0	54,570
with inflation	23,010	10,064	20,416	865	315	0	0	0	54,670

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
10244001-Permanente Ck, Bay to Foothill Expwy – Lower Peninsula Fund	17,376	0	1	0	0	0	0	0	0	17,376
26244001-Permanente Ck, Bay to Foothill Expwy – Clean, Safe Creeks Fund	17,041	0	1,342	19,074	865	315	0	0	0	37,295
TOTAL	34,417	0	1,343	19,074	865	315	0	0	0	54,671

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	17,376
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	37,295
Total	54,671

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $100,000 per year, beginning in FY 2017. Increases in operations and maintenance costs include sediment removal at three flood detention sites, and bypass channel inlet and outlet operations and maintenance.

USEFUL LIFE: 30+ Years

Project	**San Francisquito Creek, San Francisco Bay through Searsville Dam**
Program	Flood Protection – Lower Peninsula Watershed
Priority No.	79
Project No.	10284007s
District Contact	Melanie Richardson mrichardson@valleywater.org

Upstream face of Pope/Chaucer Street with water surface approximately 2 feet below the soffit

PROJECT DESCRIPTION

This project provides coordination and support to the San Francisquito Joint Powers Authority, in partnership with the U.S. Army Corps of Engineers, to complete planning and design documents for an approved project alternative on San Francisquito Creek, from San Francisco Bay through Searsville Dam. This project will accomplish the following objectives:

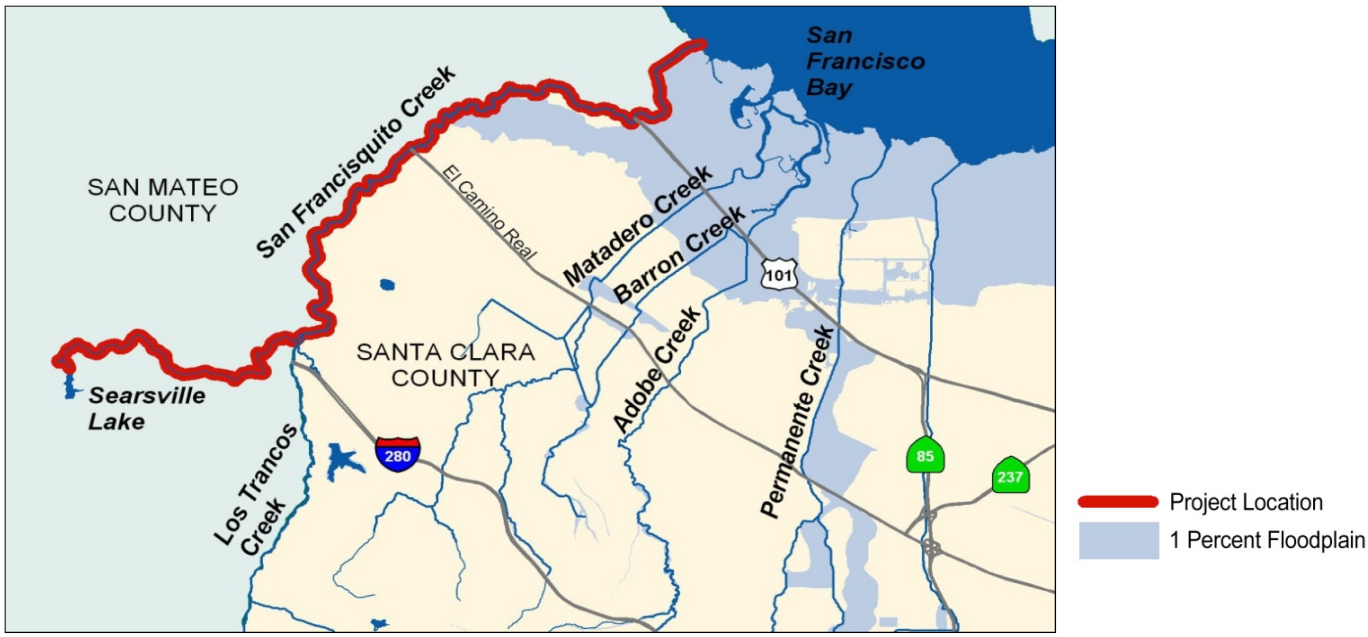
- Provide flood protection.
- Reduce bank erosion and sedimentation-related impacts along San Francisquito Creek.
- Avoid potential adverse impacts on fish and wildlife habitats.
- Minimize impacts to the creek's environmental resources and restore the riparian corridor where feasible.
- Develop public support for the preferred alternative.

The San Francisquito construction project will provide 100-year flood protection from San Francisco Bay to Highway 101 starting in FY14 and replace four bridges between Highway 101 and Middlefield Road with construction starting in FY16.

This project is accounted for in the following job numbers:

- 10284007 – SF Bay through Searsville Dam
- 10284008 – Early Implementation
- 26284001 – SF Bay through Searsville Dam
- 26284002 – Construction - San Francisco Bay to Middlefield Rd.

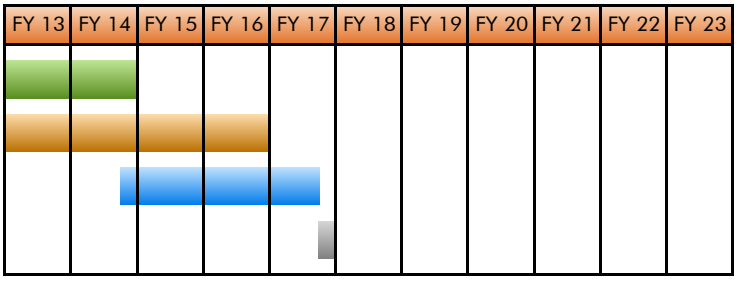
PROJECT LOCATION



SCHEDULE & STATUS

June 2003 to June 2017

Phase	Cost
Plan	5,602
Design	8,260
Construct	37,420
Closeout	58
	51,340



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
10284007-San Francisquito Ck, Bay-Searsville Dam	4,067	800	51	0	0	0	0	0	4,918
with inflation	4,067	800	51	0	0	0	0	0	4,918
10284008-San Francisquito Ck, Early Implementation	1,546	0	0	0	0	0	0	0	1,546
with inflation	1,546	0	0	0	0	0	0	0	1,546
26284001-San Francisquito Ck, Bay-Searsville Dam	948	2,675	3,071	0	0	0	0	0	6,694
with inflation	948	2,675	3,071	0	0	0	0	0	6,694
26284002-San Francisquito Ck - Construction - SF Bay to Middlefield Rd.	723	948	17,588	420	18,548	1,358	0	0	39,585
with inflation	723	948	17,588	454	19,750	1,589	0	0	41,052
TOTAL	**7,284**	**4,423**	**20,710**	**420**	**18,548**	**1,358**	**0**	**0**	**52,743**
with inflation	**7,284**	**4,423**	**20,710**	**454**	**19,750**	**1,589**	**0**	**0**	**54,210**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
10284007-San Francisquito Ck, Bay-Searsville Dam	4,918	0	51	0	0	0	0	0	0	4,918
10284008-San Francisquito Ck, Early Implementation	1,697	0	151	0	0	0	0	0	0	1,697
26284001-San Francisquito Ck, Bay-Searsville Dam	1,254	2,675	306	2,765	0	0	0	0	0	6,694
26284002-San Francisquito Ck - Construction - SF Bay to Middlefield Rd.	1,270	918	517	17,071	454	19,750	1,589	0	0	41,052
TOTAL	**9,139**	**3,593**	**1,025**	**19,836**	**454**	**19,750**	**1,589**	**0**	**0**	**54,361**

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately $151,000. Excess funding will be returned to reserves upon completion of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	6,615
SCVWD Safe, Clean Water and Natural Flood Protection Fund	39,746
San Francisquito Joint Powers Authority (DWR)	8,000
Total	**54,361**
U.S. Army Corps of Engineers - In-kind Services	3,000
County of San Mateo - In-kind Services	1,500

County and Corps participation are for Feasibility Study activities only. Additional funding will be negotiated during subsequent phases.

OPERATING COST IMPACTS

No operating budget impacts are expected from the construction of this project.

USEFUL LIFE: Not Available

Project	**Calabazas Creek, Miller Avenue to Wardell Road**
Program	Flood Protection – West Valley Watershed
Priority No.	42
Project No.	26104001s
District Contact	Melanie Richardson mrichardson@valleywater.org

Calabazas Creek overtops its banks in February 1986 near Miller Avenue, flooding neighborhood streets.

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along 3.3 miles of Calabazas Creek from Miller Avenue to Wardell Road to accomplish the following objectives:

- Provide one-percent flood protection on Calabazas Creek from Miller Avenue to Wardell Road.
- Reduce erosion, sedimentation, and maintenance costs.
- Provide environmental restoration and enhancement benefits where opportunities exist.
- Provide recreation enhancements where opportunities exist.

This project is accounted for in the following job numbers:

- 26104001—Calabazas Creek, Miller Avenue to Wardell Road
- 20104019—Calabazas Creek, UPRR Bridge Construction

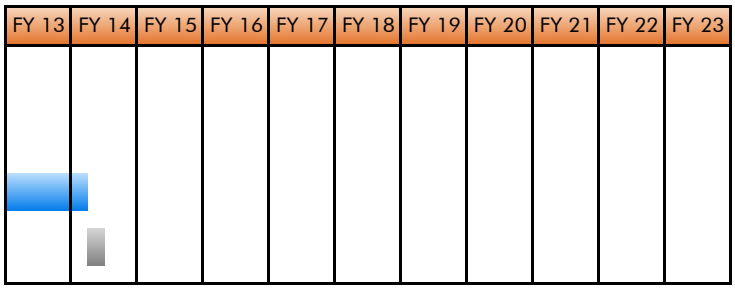
PROJECT LOCATION

SCHEDULE & STATUS

December 2003 to June 2013

Planning phase is complete. Design phase is complete. Construction phase includes 3 years of plant establishment monitoring.

Phase	Cost
Plan	6,177
Design	2,038
Construct	4,561
Closeout	91
	12,867



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
26104001-Calabazas Creek, Miller Avenue to Wardell Road	10,646	282	241	0	0	0	0	0	11,169
with inflation	10,646	282	241	0	0	0	0	0	11,169
20104019-Calabazas Creek, UPRR Bridge Construction	1,759	0	0	0	0	0	0	0	1,759
with inflation	1,759	0	0	0	0	0	0	0	1,759
TOTAL	12,405	282	241	0	0	0	0	0	12,928
with inflation	12,405	282	241	0	0	0	0	0	12,928

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
26104001-Calabazas Creek, Miller Avenue to Wardell Road	12,075	0	1,147	0	0	0	0	0	0	12,075
20104019-Calabazas Creek, UPRR Bridge Construction	1,760	0	1	0	0	0	0	0	0	1,760
TOTAL	13,835	0	1,148	0	0	0	0	0	0	13,835

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding exceeds planned expenditures by $907,000. Excess funding will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	1,760
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	12,075
Total	13,835

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease the operating costs. The new channel structure will be very similar to the original structure.

USEFUL LIFE: 30+ Years

Project	**Sunnyvale East and West Channels Improvement**
Program	Flood Protection – West Valley Watershed
Priority No.	80
Project No.	26074002
District Contact	Melanie Richardson mrichardson@valleywater.org

Sunnyvale West Channel looking upstream from Java Drive

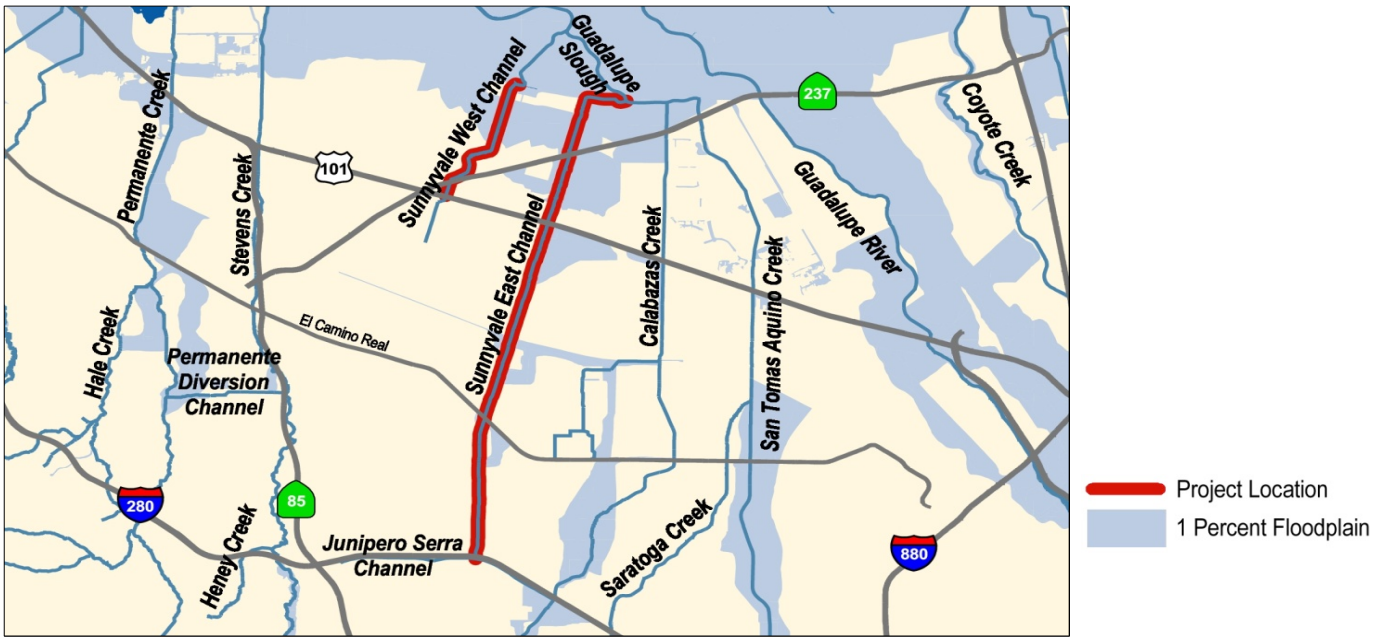
PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to approximately 6.4 miles of the Sunnyvale East Channel, from Guadalupe Slough to Interstate 280, and 2.3 miles of the Sunnyvale West Channel, from Guadalupe Slough to Highway 101, to accomplish the following objectives:

- Provide flood protection to over 1,600 parcels along Sunnyvale East and West Channels.
- Provide environmental enhancement benefits where opportunities exist.
- Provide recreation enhancements where opportunities exist.
- Reduce erosion, sedimentation, and maintenance costs.
- Protect fish and wildlife habitat.

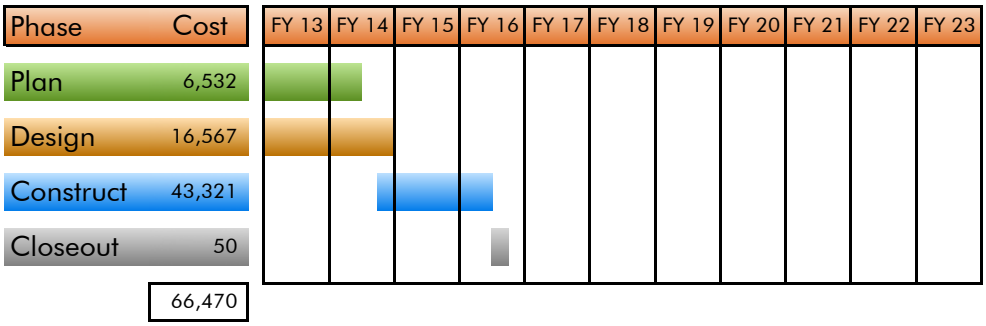
The Sunnyvale East and Sunnyvale West Channels were originally identified as separate projects. In order to improve efficiency by combining efforts, the planning, design and construction phases for both projects will be performed as a single effort.

PROJECT LOCATION



SCHEDULE & STATUS

March 2006 to March 2016



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
26074002-Sunnyvale East and West Channels Improvement	8,872	6,737	13,712	26,155	11,050	0	0	0	66,526
with inflation	8,872	6,737	13,712	27,259	11,793	0	0	0	68,373

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
26074002-Sunnyvale East and West Channels Improvement	11,863	3,746	0	13,712	27,259	11,793	0	0	0	68,373

Adjusted Budget includes adopted budget plus a planned budget adjustment of $1,155,000.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	68,373
Other Funding Source	0
Total	68,373

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $50,000 per year, beginning in FY 2017. Increases in operations and maintenance costs include graffiti removal, mowing and weed control under the levees, and for operation and maintenance of the Pond A4 detention basin.

USEFUL LIFE: 30+ Years

Project	**Guadalupe River—Downtown, Interstate 880 to Interstate 280**
Program	Flood Protection – Guadalupe Watershed
Priority No.	77
Project No.	30154013s
District Contact	Melanie Richardson mrichardson@valleywater.org

West bank of the Guadalupe River, looking upstream from the Coleman Bridge, in September 2005

PROJECT DESCRIPTION

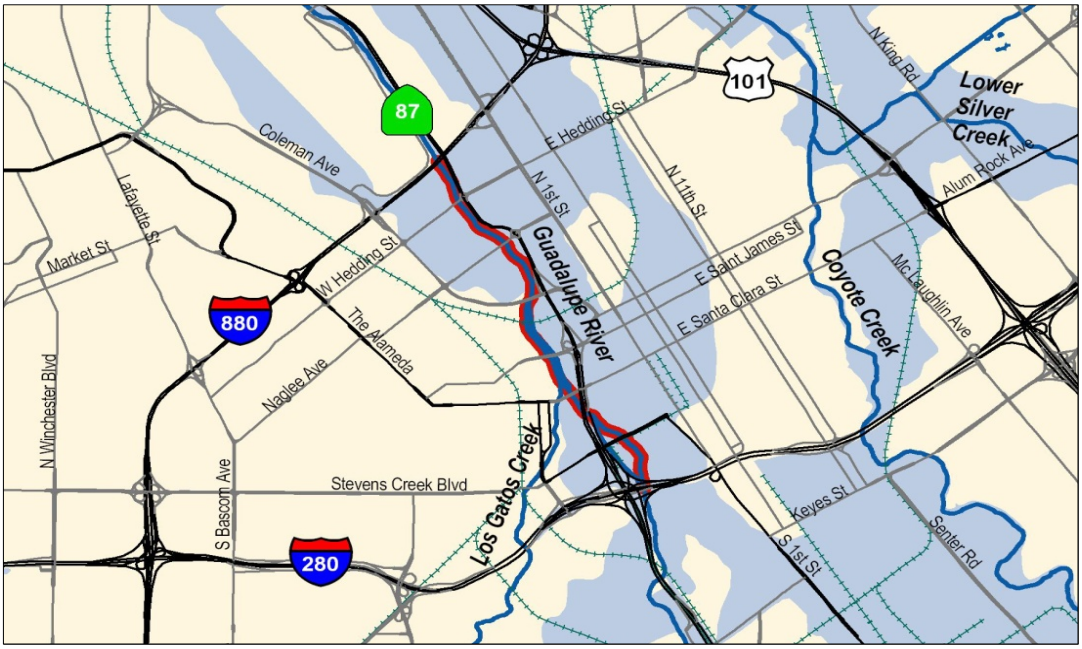
This project partners with the U.S. Army Corps of Engineers (Corps), State of California, City of San Jose, and San Jose Redevelopment Agency to plan, design, and construct improvements along 2.6 miles of the Guadalupe River, from Interstate 880 to Interstate 280, to accomplish the following objectives:

- Provide one-percent flood protection to downtown San Jose's technology and commercial industries and residential neighborhoods.
- Protect and improve water quality of the river.
- Preserve and enhance the river's habitat, fish and wildlife.
- Provide recreational and open space benefits in cooperation with the Corps, City of San Jose, and San Jose Redevelopment Agency.

This project is accounted for in the following job numbers:

- 30154013—Interstate 880 to Heading
- 30154014—Hedding to Coleman
- 30154015—Coleman to Santa Clara
- 30154016—Santa Clara to Park
- 30154017—Woz Way to Interstate 280
- 30154018—Guadalupe River, Escrow

PROJECT LOCATION

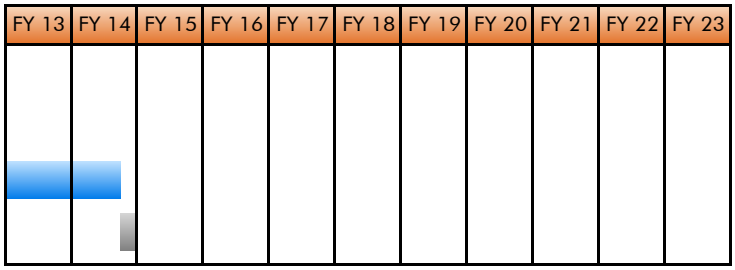


SCHEDULE & STATUS

March 1990 to December 2012

Planning, design and most of the planned construction is complete.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
30154013-Guadalupe Rv—DT, I-880 to Hedding	1,286	0	0	0	0	0	0	0	1,286
with inflation	1,286	0	0	0	0	0	0	0	1,286
30154014-Guadalupe Rv—DT, Hedding-Coleman	10,459	0	0	0	0	0	0	0	10,459
with inflation	10,459	0	0	0	0	0	0	0	10,459
30154015-Guadalupe Rv—DT, Coleman-W. SC	29,922	27	936	0	0	0	0	0	30,885
with inflation	29,922	27	936	0	0	0	0	0	30,885
30154016-Guadalupe Rv—DT, W. SC to Park	11,354	0	0	0	0	0	0	0	11,354
with inflation	11,354	0	0	0	0	0	0	0	11,354
30154017-Guadalupe Rv—DT, Woz to I-280	9,567	0	0	0	0	0	0	0	9,567
with inflation	9,567	0	0	0	0	0	0	0	9,567
30154018-Guadalupe Rv—DT, Escrow	36,014	0	0	0	0	0	0	0	36,014
with inflation	36,014	0	0	0	0	0	0	0	36,014
TOTAL	**98,602**	**27**	**936**	**0**	**0**	**0**	**0**	**0**	**99,565**
with inflation	**98,602**	**27**	**936**	**0**	**0**	**0**	**0**	**0**	**99,565**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
30154013-Guadalupe Rv—DT, I-880 to Hedding	1,825	0	539	0	0	0	0	0	0	1,825
30154014-Guadalupe Rv—DT, Hedding-Coleman	10,811	0	352	0	0	0	0	0	0	10,811
30154015-Guadalupe Rv—DT, Coleman-W. SC	35,102	0	5,153	0	0	0	0	0	0	35,102
30154016-Guadalupe Rv—DT, W. SC to Park	11,355	0	1	0	0	0	0	0	0	11,355
30154017-Guadalupe Rv—DT, Woz to I-280	9,567	0	0	0	0	0	0	0	0	9,567
30154018-Guadalupe Rv—DT, Escrow	36,144	0	130	0	0	0	0	0	0	36,144
TOTAL	**104,804**	**0**	**6,175**	**0**	**0**	**0**	**0**	**0**	**0**	**104,804**

Adjusted Budget includes adopted budget plus approved budget adjustments. Total funding is $5,239,000 more than planned expenditures. Unspent funding will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	74,207
State of California	28,943
City of San Jose	1,654
City of San Jose Redevelopment Agency	10,208
Other Funding Source	0
Total	**104,804**
U.S. Army Corps of Engineers - In-kind Services	170,500

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $450,000 per year, with approximately $150,000 beginning in FY 2009 and the remaining $300,000 beginning in FY 2015. Increased costs are primarily due to increased channel width and adaptive management and monitoring costs described in the Mitigation and Monitoring Plan.

USEFUL LIFE: 30+ Years

Project	**Guadalupe River–Upper, Interstate 280 to Blossom Hill Road**
Program	Flood Protection – Guadalupe Watershed
Priority No.	77
Project No.	26154001s
District Contact	Melanie Richardson mrichardson@valleywater.org

Flooding from Guadalupe River on Willow Street near the Southern Pacific Railroad Bridge

PROJECT DESCRIPTION

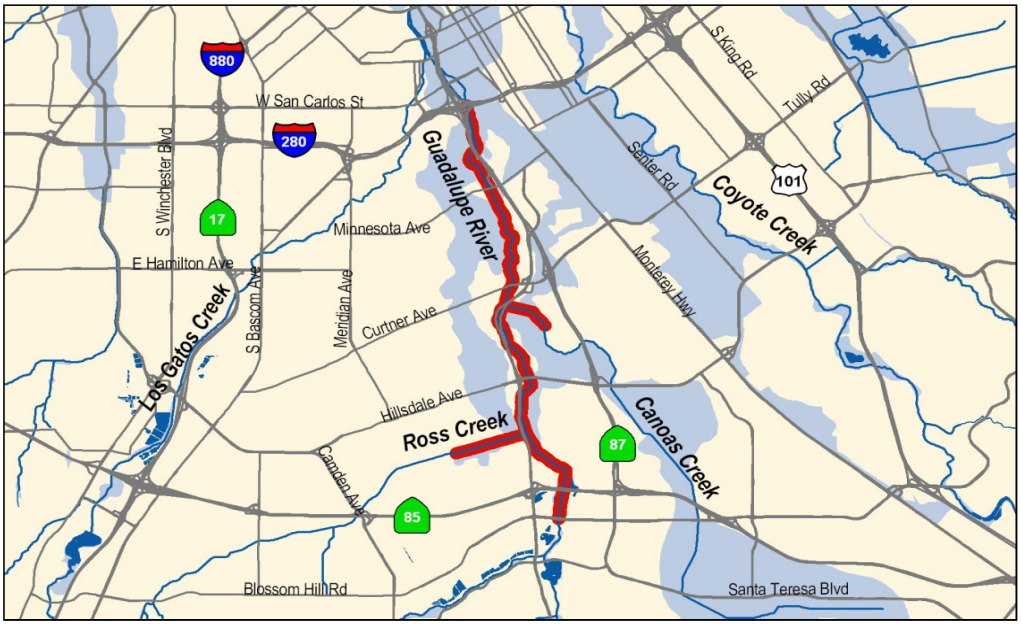
This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements along approximately 6 miles of the Guadalupe River, from Interstate 280 to Blossom Hill Road, to accomplish the following objectives:

- Provide one-percent flood protection to nearly 7,000 parcels along the Guadalupe River, from I-280 to Blossom Hill Road, including portions of Ross Creek and Canoas Creek.
- Provide long-term net gains of 15 acres in riparian forest acreage, quality, and continuity of wildlife habitat, and conditions favoring Chinook salmon and steelhead trout.
- Provide access to an additional 19 miles of suitable upstream spawning and rearing habitat, which would result in significant long-term beneficial impacts on fisheries resources.
- Coordinate with the City of San Jose and the community to establish a continuous maintenance road suitable for trail development between Interstate 280 and Los Alamitos Creek.
- Improve water quality by reducing bank erosion and sedimentation-related impacts along the river and tributaries.
- Address and resolve permit coordination activities and watershed integration issues through the Guadalupe Watershed Integration Working Group.

This project is accounted for in the following job numbers:

- 26154001—Fish Passage Modification (Completed)
- 26154002—I-280 to Southern Pacific Railroad Bridge (Reach 6)
- 26154003—Southern Pacific Railroad Bridge to Blossom Hill Road (Reaches 7-12)

PROJECT LOCATION



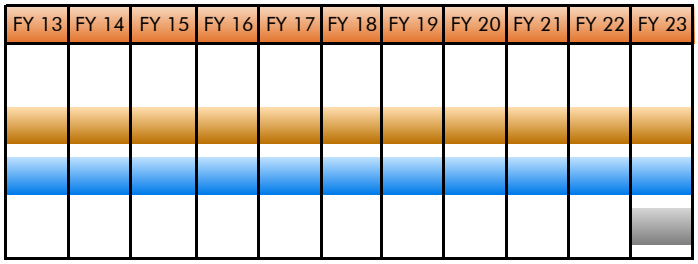
Project Location
1 Percent Floodplain

SCHEDULE & STATUS

July 2001 to June 2023

Planning phase is complete. Design and construction of eight individual reaches are being done sequentially.

Phase	Cost
Plan	10,840
Design	88,702
Construct	75,249
Closeout	175
	n/a



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
26154001-Guadalupe Rv—Upr, Fish Passage Mods	2,651	0	0	0	0	0	0	0	2,651
with inflation	2,651	0	0	0	0	0	0	0	2,651
26154002-Guadalupe Rv—Upr, I-280 to SPRR (R6)	30,893	800	473	598	847	0	0	0	33,611
with inflation	30,893	800	473	647	934	0	0	0	33,746
26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. (R7-12)	34,115	6,486	19,259	20,152	15,524	13,199	6,389	17,208	132,332
with inflation	34,115	6,486	19,259	21,302	16,826	15,004	7,548	22,206	142,746
Actuals in closed project numbers	7,887	0	0	0	0	0	0	0	7,887
with inflation	7,887	0	0	0	0	0	0	0	7,887
TOTAL	75,546	7,286	19,732	20,750	16,371	13,199	6,389	17,208	176,481
with inflation	75,546	7,286	19,732	21,949	17,759	15,004	7,548	22,206	187,030

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
26154001-Guadalupe Rv—Upr, Fish Passage Mods	2,651	0	0	0	0	0	0	0	0	2,651
26154002-Guadalupe Rv—Upr, I-280 to SPRR (R6)	33,710	0	2,017	0	0	36	0	0	0	33,746
26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. (R7-12)	67,935	0	27,334	0	13,227	16,826	15,004	7,548	22,206	142,746
Actuals in closed project numbers	7,887	0	0	0	0	0	0	0	0	7,887
TOTAL	112,183	0	29,351	0	13,227	16,862	15,004	7,548	22,206	187,030

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	124,052
SCVWD Watershed Stream Stewardship Fund	12,000
SCVWD Safe, Clean Water And Natural Flood Protection Fund	25,593
State of California	21,600
City of San Jose	3,785
Total	187,030
U.S. Army Corps of Engineers - In-kind Services	136,571

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $480,000 per year, beginning in FY 2020, for mitigation and monitoring labor and equipment, implementation of adaptive management measures, and operations and maintenance in accordance with the Corps Operations and Maintenance Manual.

USEFUL LIFE: 30+ Years

Project	**Berryessa Creek, Calaveras Boulevard to Interstate 680**
Program	Flood Protection – Coyote Watershed
Priority No.	53
Project No.	26174041s
District Contact	Melanie Richardson mrichardson@valleywater.org

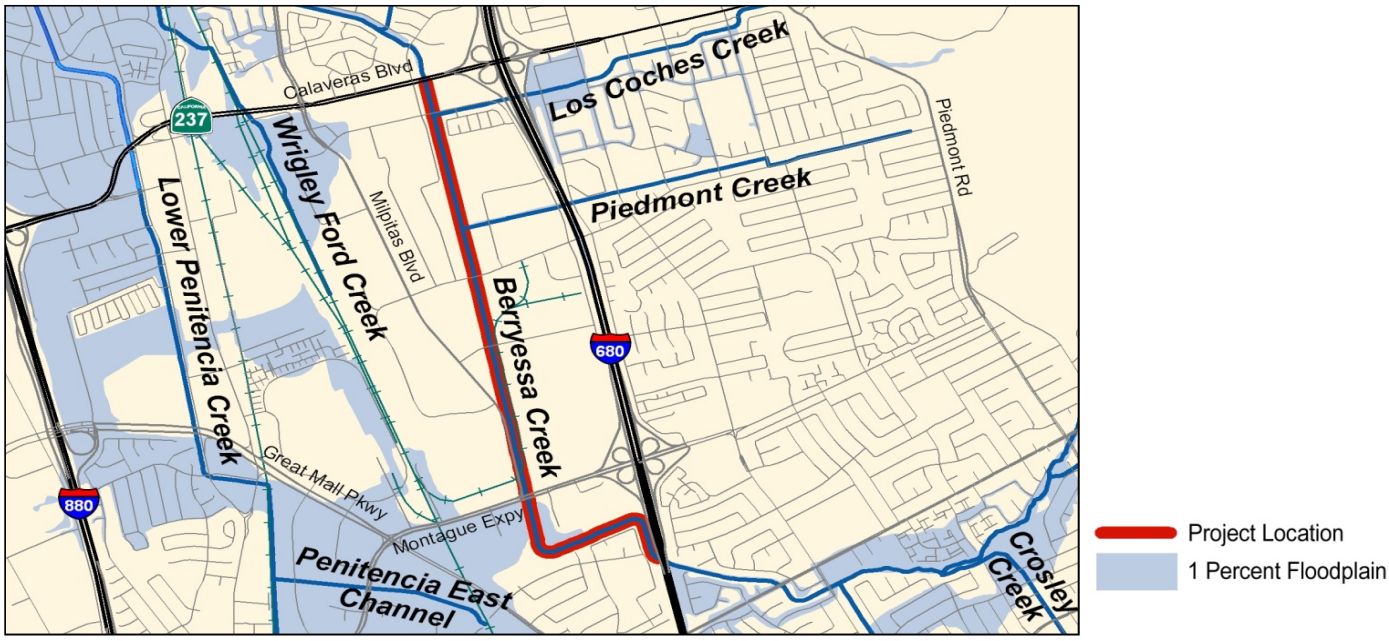
Berryessa Creek near flood stage at Piedmont Road in San Jose

PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements along approximately 2 miles of Berryessa Creek, from Calaveras Boulevard to Interstate 680, to accomplish the following objectives:

- Provide one-percent flood protection to more than 1,800 homes, businesses, and public buildings.
- Reduce sedimentation and maintenance requirements.
- Mitigate for project impacts.
- Improve stream habitat values.
- Coordinate with the cities of San Jose and Milpitas, and the community to establish a continuous maintenance road suitable for trail development along the Berryessa Creek project.
- Obtain a Letter of Map Revision (LOMR) from the Federal Emergency Management Agency (FEMA).
- Incorporate the District's Clean, Safe Creeks and Natural Flood Protection Program Objectives.

PROJECT LOCATION

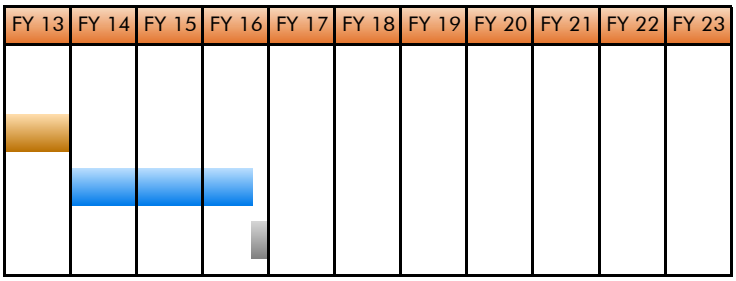


SCHEDULE & STATUS

July 2001 to June 2016

Planning Phase is complete

Phase	Cost
Plan	7,067
Design	691
Construct	30,361
Closeout	110
	38,229



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
26174041-Berryessa Creek, Corps Coordination	6,716	2,565	94	90	65	0	0	0	9,530
with inflation	6,716	2,565	94	97	73	0	0	0	9,545
26174042-Berryessa Creek, LERRDs	698	438	18,328	9,163	75	0	0	0	28,702
with inflation	698	438	18,328	9,540	84	0	0	0	29,088
TOTAL	**7,414**	**3,003**	**18,422**	**9,253**	**140**	**0**	**0**	**0**	**38,232**
with inflation	**7,414**	**3,003**	**18,422**	**9,637**	**157**	**0**	**0**	**0**	**38,634**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
26174041-Berryessa Creek, Corps Coordination	6,734	2,565	18	76	97	73	0	0	0	9,545
26174042-Berryessa Creek, LERRDs	5,291	0	4,155	14,173	9,540	84	0	0	0	29,088
TOTAL	**12,025**	**2,565**	**4,173**	**14,249**	**9,637**	**157**	**0**	**0**	**0**	**38,634**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	27,800
State of California	10,834
Total	**38,634**
U.S. Army Corps of Engineers - In-kind Services	25,000

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $80,000 per year, beginning in FY 2017, to maintain approximately 2 miles of new levees and flood walls, and for activities such as vegetation spraying and graffiti removal.

USEFUL LIFE: 30+ Years

Project	**Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard**
Program	Flood Protection – Coyote Watershed
Priority No.	67
Project No.	40174004
District Contact	Melanie Richardson mrichardson@valleywater.org

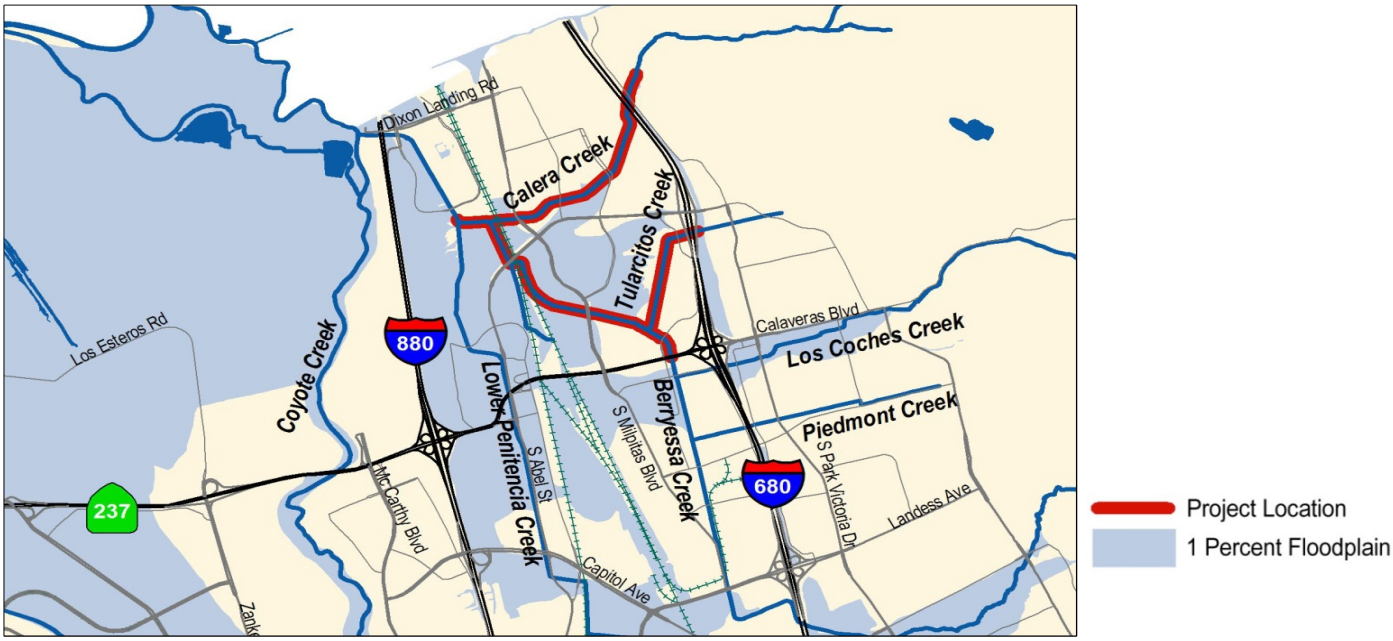
Berryessa Creek upstream of the confluence with Lower Penitencia Creek

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately 3 miles of Berryessa Creek and its tributaries, from the confluence with Lower Penitencia Creek to Calaveras Boulevard and the lower reaches of both Calera and Tularcitos Creeks, to accomplish the following objectives:

- Provide one-percent flood protection to 1,800 homes, businesses, and public buildings in the surrounding area.
- Improve the structural integrity of the levees.
- Improve maintenance access and safety for District staff.
- Identify opportunities to integrate recreation inputs consistent with the City of Milpitas' Trail Master Plan.
- Obtain a Letter of Map Revision (LOMR) from the Federal Emergency Management Agency (FEMA).
- Incorporate the District's Clean, Safe Creeks and Natural Flood Protection (NFP) Program Objectives.

PROJECT LOCATION

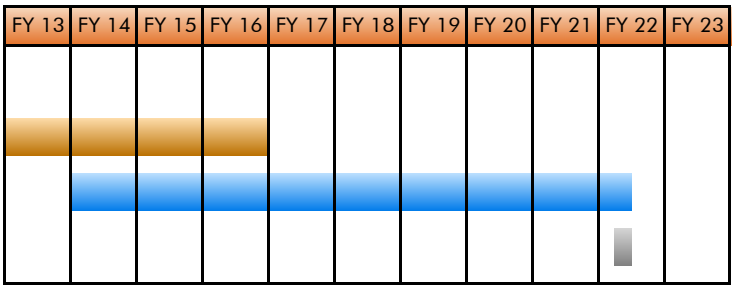


SCHEDULE & STATUS

March 2001 to December 2021

Planning phase is complete. Construction includes three phases and three years of plant establishment monitoring.

Phase	Cost
Plan	7,694
Design	3,511
Construct	39,132
Closeout	54
	50,391



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
40174004-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard	30,420	8,985	474	240	8,935	615	600	180	50,449
with inflation	30,420	8,985	474	260	9,522	719	730	242	51,352

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
40174004-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard	37,880	1,535	10	464	260	9,522	719	730	242	51,352

Adjusted Budget includes adopted budget plus approveded budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	51,352
Other Funding Source	0
Total	51,352

OPERATING COST IMPACTS

The completion of this project is anticipated to increase annual operating costs by approximately $100,000 per year. Operating costs will increase with completion of construction of each of 3 phases: beginning with a $50,000 increase in FY 2014 (with completion of Phase 1), increasing to $65,000 in FY 2016 (Phase 2), and finally increasing to $100,000 in FY 2018 (Phase 3). These costs will be for increased maintenance activities such as sediment removal, vegetation management, levee maintenance, graffiti abatement, and trash & debris cleanup.

USEFUL LIFE: 30+ Years

Project	**Coyote Creek, Montague Expressway to Interstate 280**
Program	Flood Protection – Coyote Watershed
Priority No.	59
Project No.	26174043
District Contact	Liang Lee llee@valleywater.org

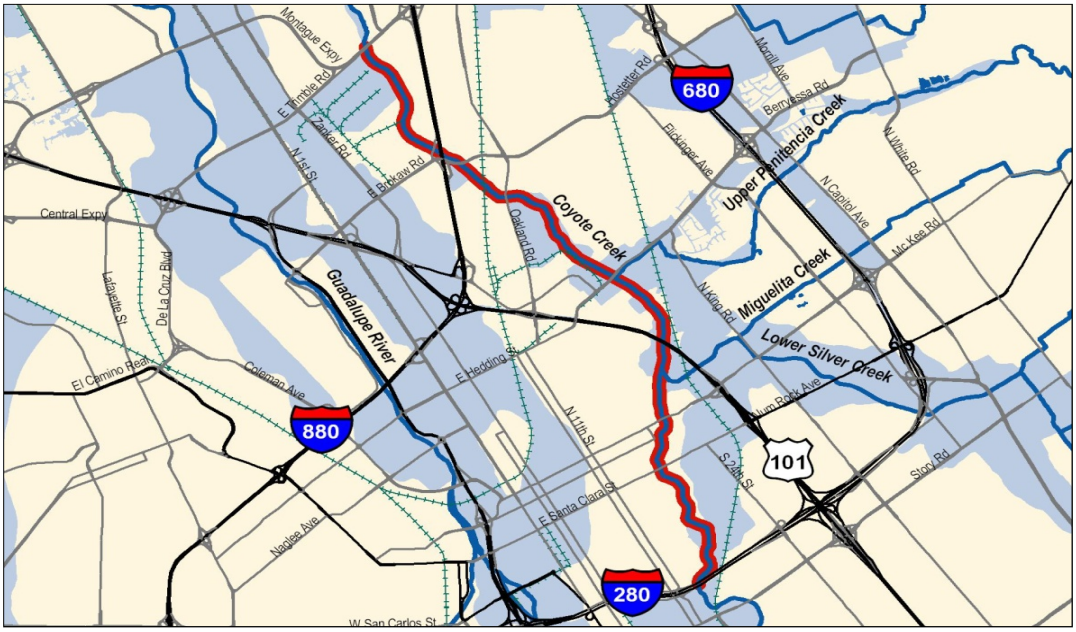
Flooding from Coyote Creek on 17th Street near downtown San Jose in January 1997

PROJECT DESCRIPTION

This project plans, designs, and partially constructs improvements along approximately 6.1 miles of Coyote Creek, from Montague Expressway to Interstate 280, to accomplish the following objectives:

- Provide flood protection to the surrounding area.
- Mitigate for project impacts to stream habitat and fisheries.
- Develop a continuous maintenance road that is consistent and supportive of the city's Coyote Creek Trail master plans.
- Identify stream habitat enhancement and/or restoration opportunities.
- Identify opportunities to improve water quality within the project limits.
- Identify opportunities to provide for public recreation and access.
- Create a self-sustaining system within the project limits, to reduce long-term operations and maintenance costs.
- Obtain community support.

PROJECT LOCATION



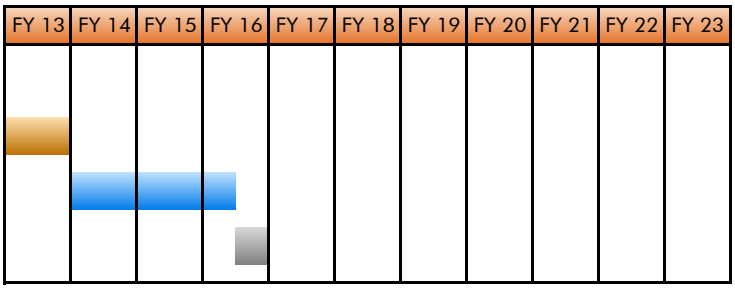
Project Location
1 Percent Floodplain

SCHEDULE & STATUS

September 2002 to June 2016

Planning Phase is complete

Phase	Cost
Plan	8,013
Design	10,760
Construct	15,270
Closeout	66
	34,109



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
26174043-Coyote Creek, Montague Expressway to Interstate 280	9,806	740	20,440	2,800	335	0	0	0	34,121
with inflation	9,806	740	20,440	3,028	377	0	0	0	34,391

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
26174043-Coyote Creek, Montague Expressway to Interstate 280	15,258	738	5,450	14,990	3,028	377	0	0	0	34,391

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	34,391
Other Funding Source	0
Total	**34,391**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $100,000 per year, beginning in FY 2017. Currently the District has limited and sporadic property rights within the project limits along the creek, and ongoing maintenance costs are relatively small. Project implementation may include acquisition of continuous right of way for construction and future operations and maintenance.

USEFUL LIFE: 30+ Years

Project	**Lake Cunningham Improvements**
Program	Flood Protection – Coyote Watershed
Priority No.	54
Project No.	40264011
District Contact	Melanie Richardson mrichardson@valleywater.org

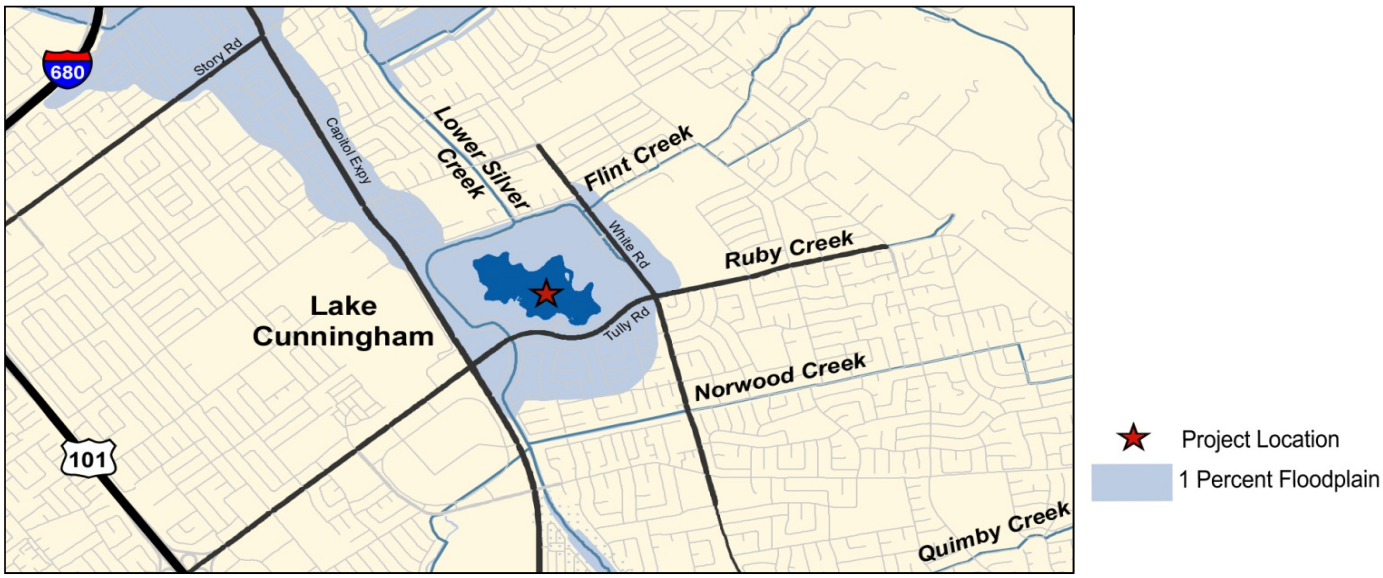
Flooding from Lower Silver Creek in February 1969 at the future site of Lake Cunningham

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to Lake Cunningham in the city of San Jose between Cunningham Avenue and Tully Road, to function as a detention basin and accomplish the following objectives:

- Provide one-percent flood protection to Lower Silver Creek between Coyote Creek and Cunningham Avenue.
- Obtain Letter of Map Revision for Lower Silver Creek area from FEMA to remove at least 3,800 parcels from the 1% flood plain.
- Coordinate with the City of San Jose and VTA to develop improvements that support associated plans for public transportation and recreational trail development.

PROJECT LOCATION

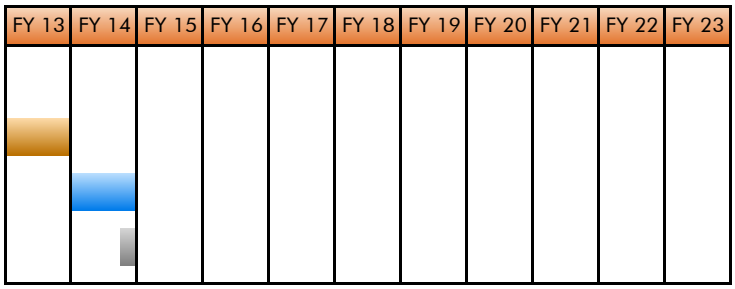


SCHEDULE & STATUS

August 1999 to June 2014.

Planning Phase is complete

Phase	Cost
Plan	260
Design	1,507
Construct	5,285
Closeout	20
	7,072



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
40264011-Lake Cunningham Improvements	217	552	2,291	4,013	0	0	0	0	7,073
with inflation	217	552	2,291	4,175	0	0	0	0	7,235

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
40264011-Lake Cunningham Improvements	333	552	116	2,175	4,175	0	0	0	0	7,235

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	7,235
Other Funding Source	0
Total	**7,235**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operations costs. The project is within District jurisdiction and it is designed to minimize maintenance activities such as sediment removal, so as to have minimal or no additional impact to the operating budget.

USEFUL LIFE: 30+ Years

Project	**Lower Penitencia Creek Capacity Restoration, Berryessa to Coyote Creeks**
Program	Flood Protection – Coyote Watershed
Priority No.	54
Project No.	40334005
District Contact	Melanie Richardson mrichardson@valleywater.org

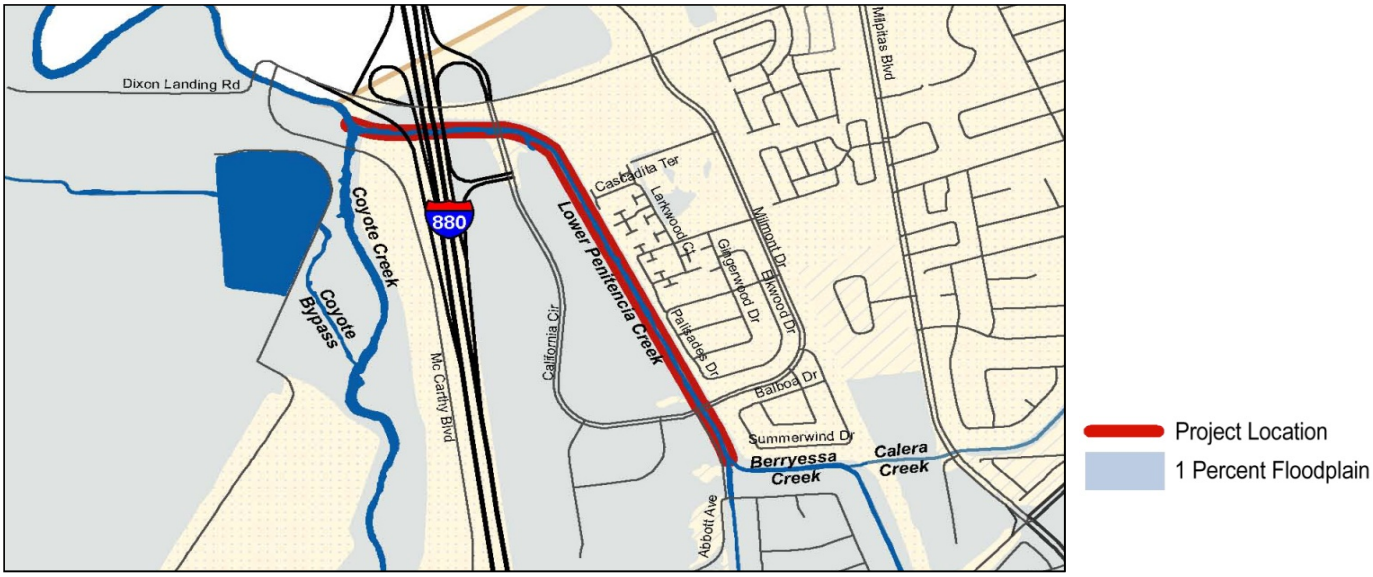
Lower Penitencia Creek, looking upstream from Abbot Avenue

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately 1 mile of Lower Penitencia Creek from the downstream confluence with Coyote Creek to the upstream confluence with Lower Berryessa Creek, to accomplish the following objectives:

- Provide 1% flood protection along the creek.
- Identify opportunities for environmental enhancement, such as stream restoration, trails, parks, and open space for District Board consideration.
- Minimize impacts to environmental resources and provide opportunities to protect and enhance existing riparian habitat

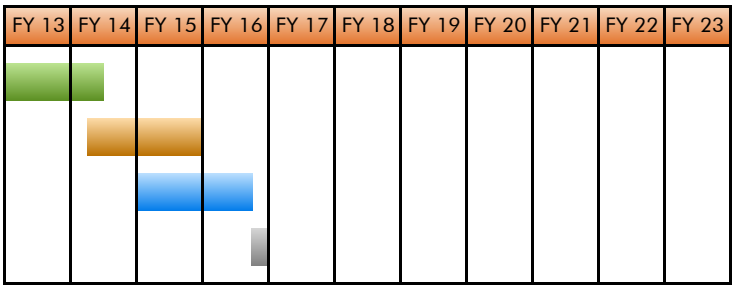
PROJECT LOCATION



SCHEDULE & STATUS

October 2010 to June 2016

Phase	Cost
Plan	356
Design	688
Construct	5,761
Closeout	40
	6,845



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
40334005-Lower Penitencia Creek Capacity Restoration, Berryessa to Coyote Creeks	268	581	2,063	3,828	53	40	20	0	6,853
with inflation	268	581	2,063	3,987	60	47	24	0	7,030

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
40334005-Lower Penitencia Creek Capacity Restoration, Berryessa to Coyote Creeks	547	581	279	1,784	3,987	60	47	24	0	7,030

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	7,030
Other Funding Source	0
Total	**7,030**

OPERATING COST IMPACTS

Operating cost impacts will be provided after completion of the planning phase.

USEFUL LIFE: 50 Years

Project	**Lower Silver Creek, I-680 to Cunningham Avenue (R4-6)**
Program	Flood Protection – Coyote Watershed
Priority No.	56
Project No.	40264007s
District Contact	Dennis Cheong dcheong@valleywater.org

Lower Silver Creek looking upstream from Capital Expressway

PROJECT DESCRIPTION

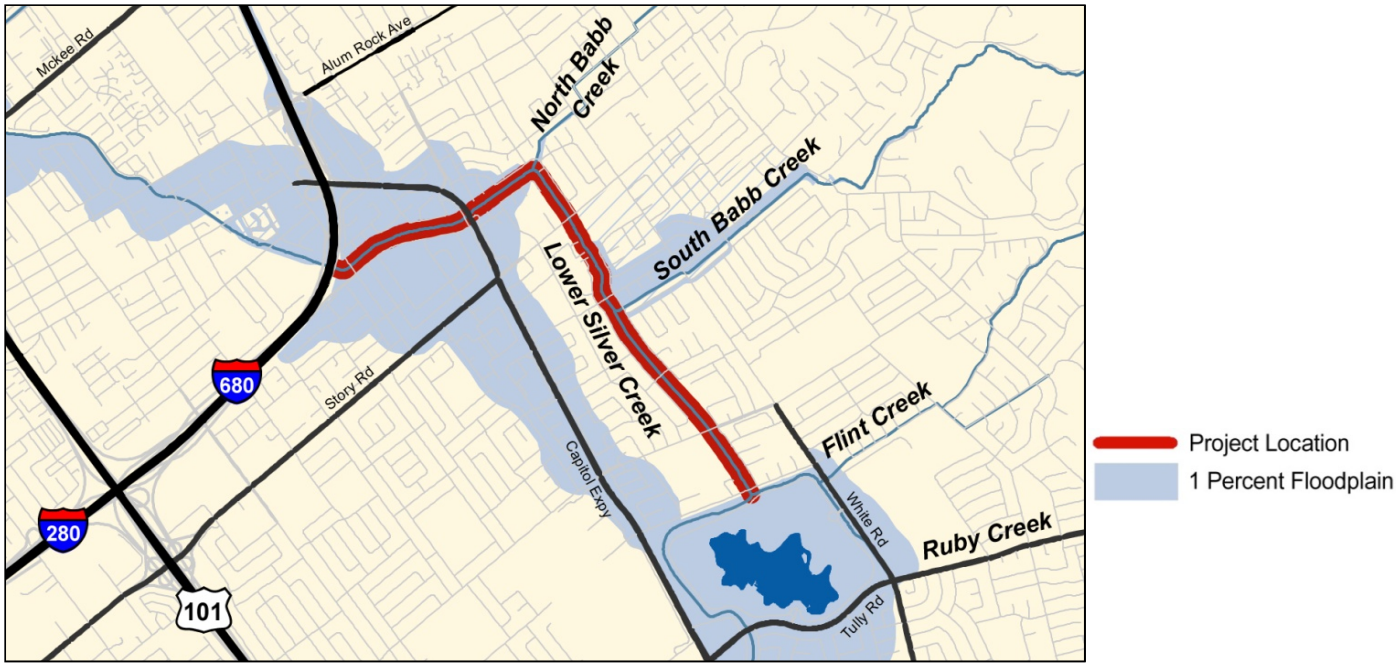
This project is part of a flood control project that partners with the Natural Resource Conservation Service (NRCS) to plan, design and construct improvements along approximately 2.3 miles of Lower Silver Creek, from Interstate 680 to Lake Cunningham. This project includes elements that are eligible for reimbursement from the state and federal governments to accomplish the following objectives:

- Increase flood protection to 3,800 parcels in the surrounding area.
- Allow for on-site mitigation of project impacts, and in some cases enhancement of existing habitat values by increased wetlands and riparian habitat.
- Improve vehicle and pedestrian bridges crossing Lower Silver Creek.
- Develop the footprint for a future trail project between Capitol Avenue-Frontage Road and Jackson Avenue that ensures pedestrians and bicyclists may travel beneath the Dobern Pedestrian Bridge.

This project is accounted for in the following job numbers:

40264007–Lower Silver Creek, I-680 to N. Babb Rd. (Reach 4 Planning) - Completed
40264008–Lower Silver Creek, I-680 to Cunningham Rd. (Reaches 4-6)
40264012–Lower Silver Creek (Reaches 4-6) Reimbursable

PROJECT LOCATION

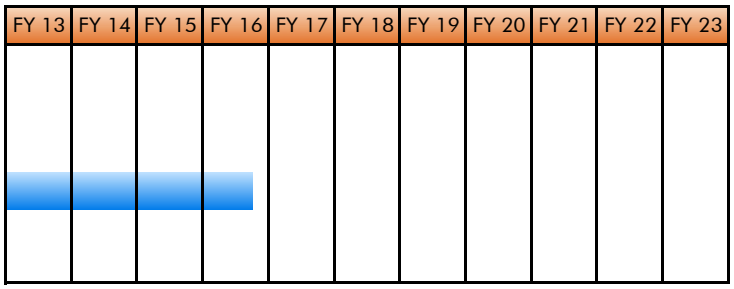


SCHEDULE & STATUS

August 1991 to April 2016

Planning and Design phases are complete

Phase	Cost
Plan	6,351
Design	9,015
Construct	71,359
Closeout	51
	86,776



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
40264007-Lower Silver Creek, Reach 4 Planning	2,371	0	0	0	0	0	0	0	2,371
with inflation	2,371	0	0	0	0	0	0	0	2,371
40264008-Lower Silver Ck, Nonreimbursable (R4-6)	67,020	13,372	1,092	50	75	0	0	0	81,609
with inflation	67,020	13,372	1,092	54	84	0	0	0	81,622
40264012-Lower Silver Creek, LERRDs (R4-6)	1,769	883	260	50	75	0	0	0	3,037
with inflation	1,769	883	260	54	84	0	0	0	3,050
TOTAL	71,160	14,255	1,352	100	150	0	0	0	87,017
with inflation	71,160	14,255	1,352	108	169	0	0	0	87,044

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
40264007-Lower Silver Creek, Reach 4 Planning	2,371	0	0	0	0	0	0	0	0	2,371
40264008-Lower Silver Ck, Nonreimbursable (R4-6)	80,898	536	1,042	50	54	84	0	0	0	81,622
40264012-Lower Silver Creek, LERRDs (R4-6)	2,760	98	206	54	54	84	0	0	0	3,050
TOTAL	86,029	634	1,248	104	108	169	0	0	0	87,044

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	36,834
State of California	5,000
Natural Resource Conservation Service - ARRA	20,210
California Department of Water Resources	25,000
Total	87,044

OPERATING COST IMPACTS

Operating budget impacts from construction of this project are expected to be insignificant. Repair of several erosion sites will reduce maintenance needs, but will not affect overall sediment removal or vegetation control practices.

USEFUL LIFE: 50+ Years

Project	**Upper Penitencia Creek, Coyote Creek to Dorel Drive**
Program	Flood Protection – Coyote Watershed
Priority No.	58
Project No.	40324003s
District Contact	Melanie Richardson mrichardson@valleywater.org

Flooding at King Road on Upper Penitencia Creek

PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements along approximately 4.2 miles of Upper Penitencia Creek, from the confluence with Coyote Creek to Dorel Drive, to accomplish the following objectives.

- Provide one-percent flood protection to more than 5,000 homes, businesses, and public buildings.
- Mitigate for project impacts.
- Improve stream habitat values and fisheries potential.
- Reduce sedimentation and maintenance requirements.
- Identify opportunities to integrate recreation improvements consistent with the City of San Jose's and Santa Clara County Parks' Master Plan.
- Obtain a Letter of Map Revision (LOMR) from the Federal Emergency Management Agency (FEMA).
- Incorporate the District's Clean, Safe Creeks and Natural Flood Protection (NFP) Program Objectives.
- Coordinate with local agencies to ensure that planned flood control improvements do not conflict with trail construction by the City of San Jose that is scheduled to begin in the latter part of 2013.

This project is accounted for in the following job numbers:

40324003—District coordination with Corps for Corps' work
40324005—District's Lands, Easements, Rights of Way, Relocation, and Disposal (LERRDs)
26C40338—District's Safe Clean Water Program

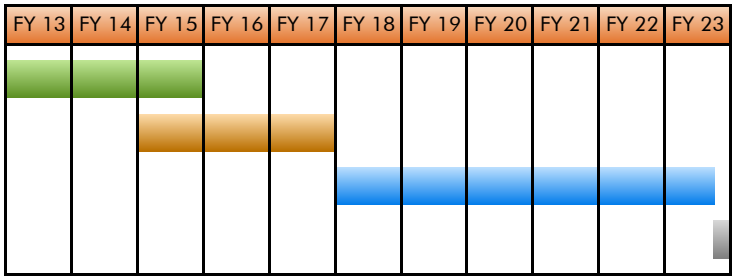
PROJECT LOCATION

Project Location
1 Percent Floodplain

SCHEDULE & STATUS

March 1996 to June 2023

Phase	Cost
Plan	6,105
Design	9,745
Construct	1,479
Closeout	111
	17,440



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
40324003-Upper Penitencia Ck, Coyote Ck to Dorel Dr, Corps	8,403	296	198	0	0	0	0	0	8,897
with inflation	8,403	296	198	0	0	0	0	0	8,897
40324005-Upper Penitencia Ck, Coyote Ck to Dorel Dr, LERRDs	2,012	4,952	1,580	0	0	0	0	0	8,544
with inflation	2,012	4,952	1,580	0	0	0	0	0	8,544
26C40338-Upper Penitencia Ck, Coyote Ck to Dorel Dr, SCW	0	0	0	1,092	1,092	1,196	9,828	30,106	43,314
with inflation	0	0	0	1,181	1,228	1,399	11,957	37,942	53,708
TOTAL	**10,415**	**5,248**	**1,778**	**1,092**	**1,092**	**1,196**	**9,828**	**30,106**	**60,755**
with inflation	**10,415**	**5,248**	**1,778**	**1,181**	**1,228**	**1,399**	**11,957**	**37,942**	**71,149**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
40324003-Upper Penitencia Ck, Coyote Ck to Dorel Dr, Corps	8,970	0	271	0	0	0	0	0	0	8,970
40324005-Upper Penitencia Ck, Coyote Ck to Dorel Dr, LERRDs	8,464	0	1,500	80	0	0	0	0	0	8,544
26C40338-Upper Penitencia Ck, Coyote Ck to Dorel Dr, SCW	0	0	0	0	1,181	1,228	1,399	11,957	37,942	53,708
TOTAL	**17,434**	**0**	**1,771**	**80**	**1,181**	**1,228**	**1,399**	**11,957**	**37,942**	**71,222**

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding exceeds planned expenditures by $73,000. Remaining funds will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	17,514
SCVWD Safe, Clean Water Fund	53,708
Total	**71,222**

Total

OPERATING COST IMPACTS

Operating cost impacts will be provided after completion of the planning phase

USEFUL LIFE: Not Available

Project	**Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River**
Program	Flood Protection – Uvas/Llagas Watershed
Priority No.	81
Project No.	50284010
District Contact	Melanie Richardson mrichardson@valleywater.org

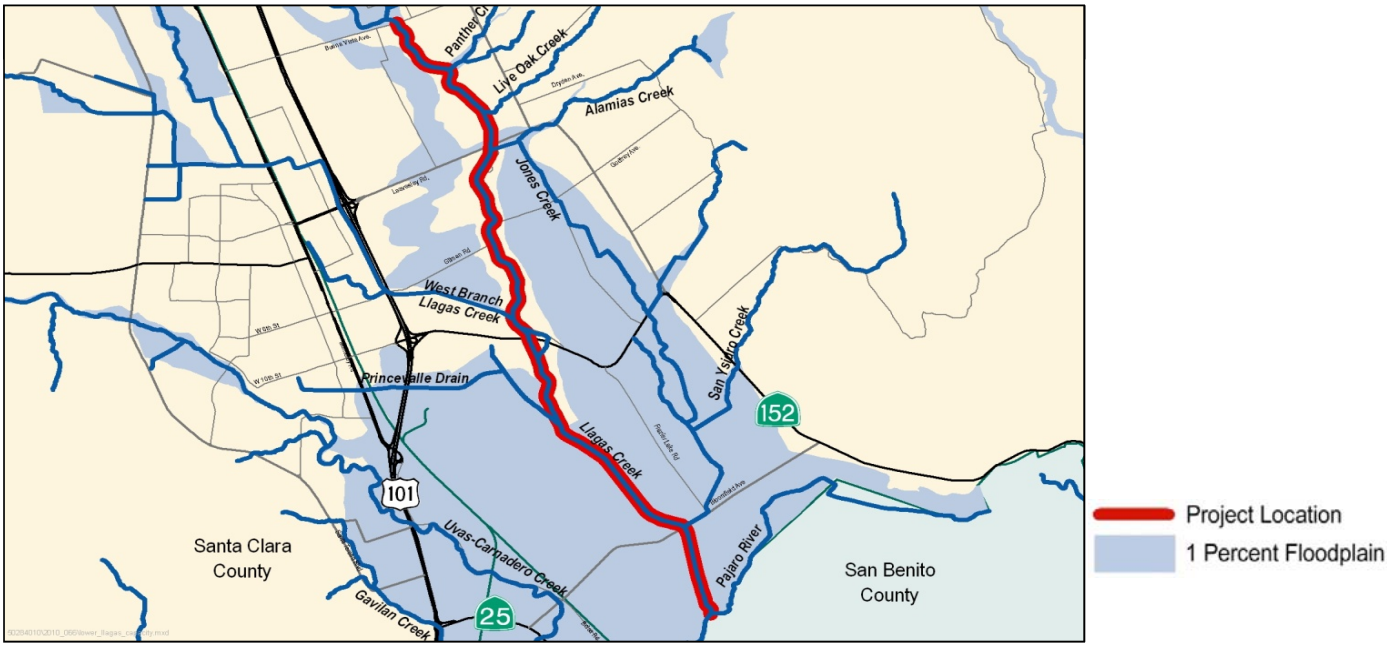
Lower Llagas Creek near Pajaro River

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements on approximately 7.15 miles of Lower Llagas Creek, from Buena Vista Avenue to Pajaro River, to accomplish the following objectives:

- Evaluate the current flood risk in the area surrounding the project versus the design level flood risk.
- Develop options to provide flood protection for Lower Llagas Creek Reaches 2 and 3 in accordance with FEMA criteria where applicable.
- Identify feasible opportunities for environmental restoration and corridor preservation.

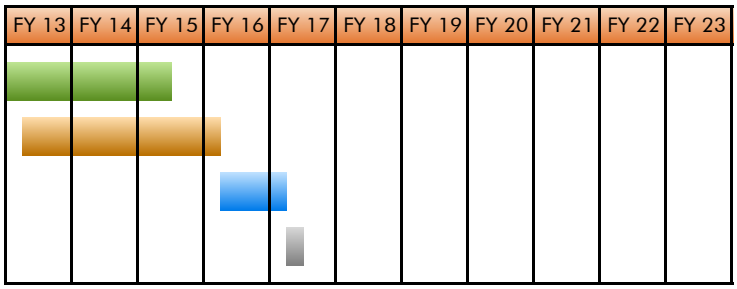
PROJECT LOCATION



SCHEDULE & STATUS

July 2008 to October 2016

Phase	Cost
Plan	3,862
Design	8,880
Construct	2,050
Closeout	50
	14,842



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
50284010-Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	3,007	1,061	7,531	1,167	1,825	275	0	0	14,866
with inflation	3,007	1,061	7,531	1,262	1,957	322	0	0	15,140

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
50284010-Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	3,466	1,202	600	6,931	1,262	1,957	322	0	0	15,140

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	15,140
Other Funding Source	0
Total	15,140

OPERATING COST IMPACTS

Operating costs will be determined during the planning phase.

USEFUL LIFE: 30+ Years

Project	**Llagas Creek–Upper, Buena Vista Road to Wright Avenue**
Program	Flood Protection – Uvas/Llagas Watershed
Priority No.	66
Project No.	26174051s
District Contact	Liang Lee llee@valleywater.org

Llagas Creek floods at Watsonville Road and the surrounding area

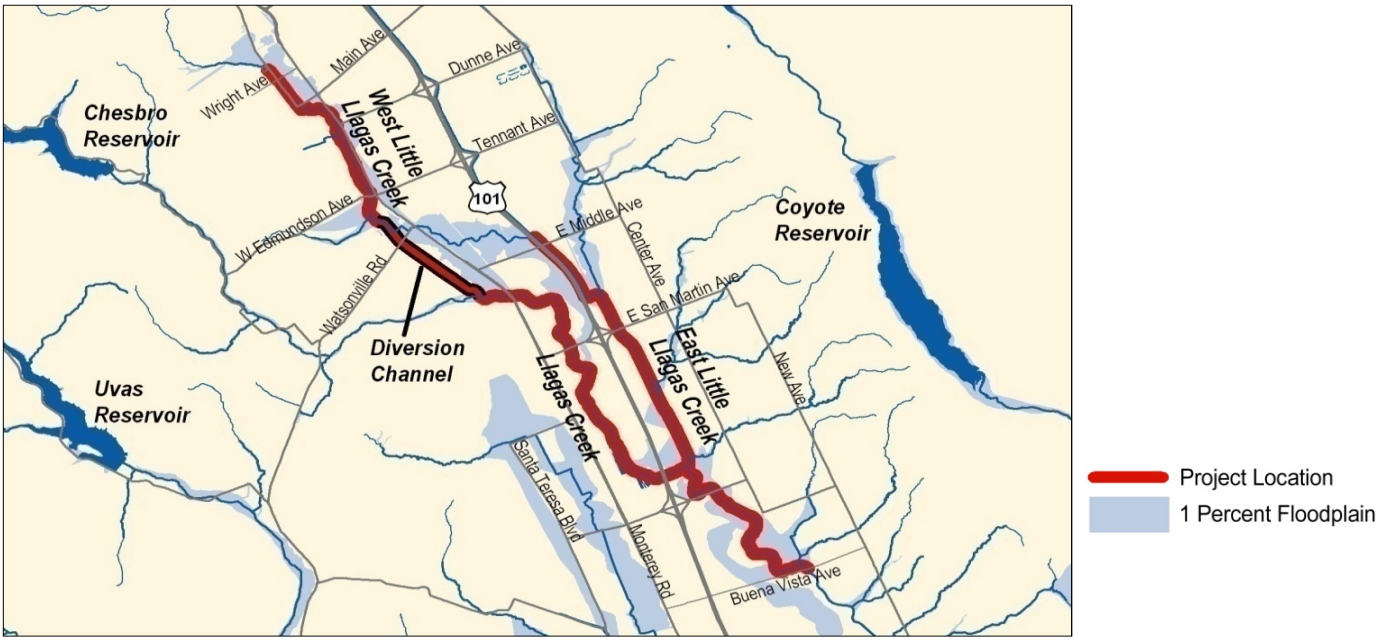
PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements on approximately 13.6 miles of Upper Llagas Creek, from Buena Vista Avenue to Wright Avenue, to provide an increased level of flood protection with adequate freeboard.

This project is accounted for in the following job numbers:

- 26174051 Reaches 4-8 & 14 - Reimbursable - Lands, Easements, Rights of Way, Relocation, & Disposal (LERRDs)
- 26174052 Reaches 4-8 & 14 - Coordination with the Corps
- 26174053 - Technical Studies
- 26174054 - Design

PROJECT LOCATION

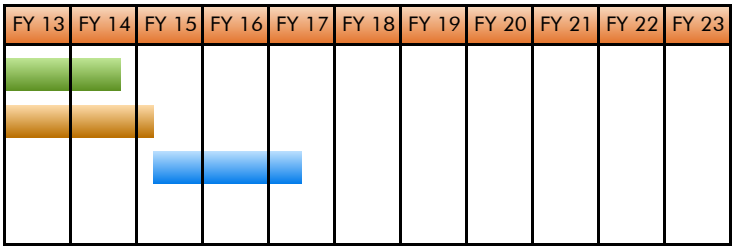


SCHEDULE & STATUS

August 2000 to September 2017

Project schedule may vary considerably and is dependent upon the Corps and Congress.

Phase	Cost
Plan	4,896
Design	56,429
Construct	46,731
Closeout	150
	108,206



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
26174051-Llagas Ck—Upper, LERRDs	6,829	2,850	32,276	395	0	0	0	0	42,350
with inflation	6,829	2,850	32,276	427	0	0	0	0	42,382
26174052-Llagas Ck—Upper, Corps Coordination	2,082	578	1,110	25,741	20,786	200	0	0	50,497
with inflation	2,082	578	1,110	26,785	22,079	234	0	0	52,868
26174053-Llagas Ck—Upper, Technical Studies	1,446	0	0	0	0	0	0	0	1,446
with inflation	1,446	0	0	0	0	0	0	0	1,446
26174054-Llagas Ck—Upper, Design	11,575	1,233	1,155	0	0	0	0	0	13,963
with inflation	11,575	1,233	1,155	0	0	0	0	0	13,963
TOTAL	**21,932**	**4,661**	**34,541**	**26,136**	**20,786**	**200**	**0**	**0**	**108,256**
with inflation	**21,932**	**4,661**	**34,541**	**27,212**	**22,079**	**234**	**0**	**0**	**110,659**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
26174051-Llagas Ck—Upper, LERRDs	8,913	766	0	32,276	427	0	0	0	0	42,382
26174052-Llagas Ck—Upper, Corps Coordination	2,572	88	0	1,110	26,785	22,079	234	0	0	52,868
26174053-Llagas Ck—Upper, Technical Studies	1,446	0	0	0	0	0	0	0	0	1,446
26174054-Llagas Ck—Upper, Design	11,680	1,133	5	1,150	0	0	0	0	0	13,963
TOTAL	**24,611**	**1,987**	**5**	**34,536**	**27,212**	**22,079**	**234**	**0**	**0**	**110,659**

Adjusted Budget includes adopted budget plus planned budget adjustments of $710,000.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	17,900
SCVWD Safe Clean Water Program Fund	39,000
Watershed Stream Stewardship Fund	14,283
State of California	36,476
City of Morgan Hill	3,000
Total	**110,659**
U.S. Army Corps of Engineers - In-kind Services	65,000

OPERATING COST IMPACTS

Operating cost impacts will be provided after completion of the planning phase.

USEFUL LIFE: 30+ Years

Project	**San Francisco Bay Shoreline**
Program	Flood Protection – Multiple Watersheds
Priority No.	32
Project No.	00044026s
District Contact	Melanie Richardson mrichardson@valleywater.org

Typical natural tidal marshland in San Francisco Bay near the Shoreline project area.

PROJECT DESCRIPTION

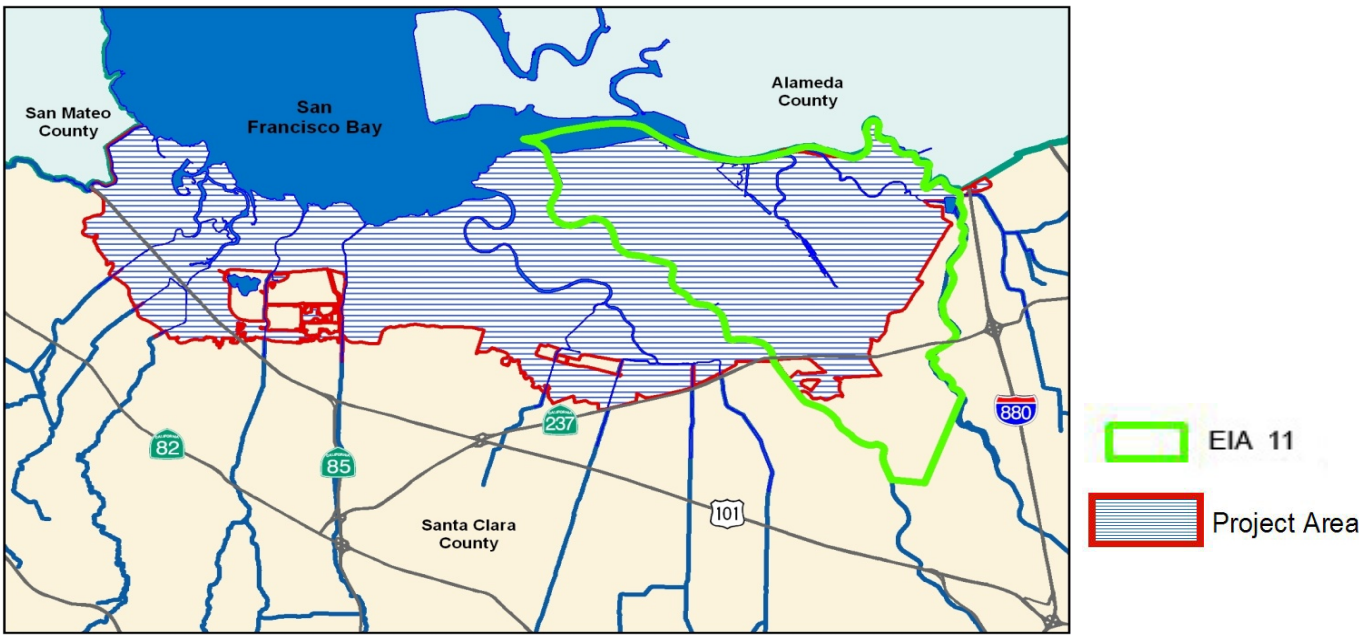
This project partners with the California Costal Conservancy, U.S. Army Corps of Engineers (Corps), and key stakeholders to conduct an integrated, multi-objective project along the San Francisco Bay Shoreline. The planning efforts for the North San Jose area, known as Economic Impact Area 11 (EIA 11), will be funded from project number 00044026. Safe, Clean Water funds will provide $15 million toward the District's cost share of the design and partial construction efforts for EIA 11 and $5 million toward the District's cost share of the planning efforts for the remaining EIAs to accomplish the following objectives:

- Provide integrated fluvial and one-percent tidal flood protection.
- Provide protection for future sea level rise projections.
- Restore and/or enhance tidal marsh and related habitats.
- Provide recreational and public access opportunities throughout the tidal floodplain of Santa Clara County.
- Pursue continued federal funding.
- Obtain a Letter of Map Revision from the Federal Emergency Management Agency at completion of the Construction Phase.
- Coordinate closely with the South Bay Salt Pond Restoration Project, City of San Jose, U.S. Fish and Wildlife Services, the community and key stakeholders.

This project is accounted for in the following job numbers:

00044026—San Francisco Bay Shoreline
62044042—Shoreline, Early Implementation (Feasibility)
26444001—Shoreline, EIA 11 Design & Partial Constr.
26444002—Shoreline, Other EIAs Planning

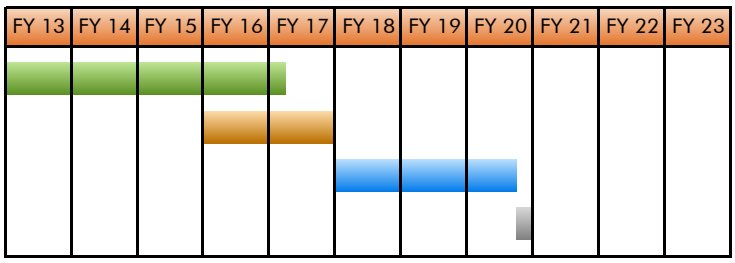
PROJECT LOCATION



SCHEDULE & STATUS

July 2003 to June 2020

Phase	Cost
Plan	17,404
Design	3,309
Construct	12,000
Closeout	-
	32,713



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
00044026-San Francisco Bay Shoreline	9,988	1,078	936	0	0	0	0	0	12,002
with inflation	9,988	1,078	936	0	0	0	0	0	12,002
62044042-Shoreline Early Implementation	358	0	0	0	0	0	0	0	358
with inflation	358	0	0	0	0	0	0	0	358
26444001-EIA 11 Design & Part Construction	0	0	0	1,500	1,500	4,000	4,000	4,000	15,000
with inflation	0	0	0	1,622	1,687	4,365	4,461	4,560	16,696
26444002-Other EIAs Planning	0	0	420	2,500	2,500	0	0	0	5,420
with inflation	0	0	420	2,704	2,812	0	0	0	5,936
TOTAL	**10,346**	**1,078**	**1,356**	**4,000**	**4,000**	**4,000**	**4,000**	**4,000**	**32,780**
with inflation	**10,346**	**1,078**	**1,356**	**4,326**	**4,499**	**4,365**	**4,461**	**4,560**	**34,992**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
00044026-San Francisco Bay Shoreline	11,665	0	599	337	0	0	0	0	0	12,002
62044042-Shoreline Early Implementation	578	0	220	0	0	0	0	0	0	578
26444001-EIA 11 Design & Part Construction	0	0	0	0	1,622	1,687	4,365	4,461	4,560	16,696
26444002-Other EIAs Planning	0	0	0	420	2,704	2,812	0	0	0	5,936
TOTAL	**12,243**	**0**	**819**	**757**	**4,326**	**4,499**	**4,365**	**4,461**	**4,560**	**35,212**

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding exceeds planned expenditures by $220,000. Excess funding will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	10,149
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund (Environmental Enhancement Grant)	2,011
SCVWD Safe, Clean Water and Natural Flood Protection Fund	22,632
California Department of Water Resources (Pending)	420
Total	**35,212**
Federal Partners, South Bay Salt Ponds (SBSP)	48,470
State, SBSP	14,720
Foundations, Packard-Hewlett-Goldman-Moore, SBSP	17,060
Coastal Conservancy, Shoreline	2,010
Federal, Corps of Engineers, Shoreline	8,990
Total Partnership Funding for In-kind Services	**91,250**

OPERATING COST IMPACTS

Operating costs will be determined during the planning phase.

USEFUL LIFE: Not Available

Water Resources Stewardship Capital Improvements

WATER RESOURCES STEWARDSHIP OVERVIEW

The District plans, designs and constructs various capital projects to meet the Board's Ends Policy E-4 "There is water resources stewardship to protect and enhance watersheds and natural resources and improve the quality of life in Santa Clara County." These projects may fulfill environmental enhancement, mitigation or stewardship goals and priorities.

Environmental Commitment Projects

Beginning in FY 2011/12 a fourth sub-category has been added to Water Resources Stewardship to clarify the differences between regulatory-driven and optional environmental enhancements. The new sub-category, Environmental Commitment includes projects that are implemented to satisfy agreements made with regulatory agencies that improve the watershed environment. In the future, the Environmental commitment sub-category will included some or all of the projects set forth in the Valley Habitat Conservation Plan (Valley HCP) or Three Creeks HCP, both still under development.

Major Capital Improvements Identified in the CIP

- Jacques Gulch

Environmental Enhancement Projects

Environmental Enhancement projects are constructed at the direction of the Board either to meet the Clean, Safe Creeks and Natural Flood Protection program (CSC) and Safe, Clean Water and Natural Flood Protection program (SCW) obligations or to meet other Board priorities.

The District's Safe, Clean Water Program, approved by the voters of Santa Clara County in 2012, committed funding for environmental enhancement activities that create or restore tidal or riparian habitat. A selection process is conducted biannually to allocate the SCW funding to the enhancement opportunities that meet Board-defined characteristics.

Major Capital Improvements Identified in the CIP

- South Bay Salt Ponds Restoration
- Lake Almaden, Guadalupe River, Los Alamitos Creek Planning and Design

Mitigation Projects

The District manages many mitigation sites and continues to plan, design, and construct new mitigation sites to fulfill CEQA and regulatory permit requirements for both capital projects and operations activities. Mitigation requirements for capital projects may be incorporated into the project scope or accomplished as a separate project.

Major Capital Improvements Identified in the CIP

- Dam Maintenance Mitigation
- SMP Mitigation, Stream and Watershed Land Preservation

Stewardship Projects

Stewardship projects are implemented to promote water quality awareness; reduce pollutants in streams; support additional trails, parks and open space; support creek side recreation; and reduce green house gas. Stewardship projects are implemented at the discretion of the Board when reasonable and appropriate. These projects are often accomplished in partnership with or support of other agencies.

Stewardship projects may be constructed to fulfill the SCW obligations or to meet other Board priorities. A selection process is conducted biannually to allocate SCW funding to the Stewardship projects that meet the SCW requirements.

Water Resources Stewardship Capital Improvements

Major Capital Improvements Identified in the CIP

- Alviso Slough Restoration
- FAHCE Stevens Creek Fish Passage Enhancement
- Gold Street Educational Center
- SCW Implementation Fund

PRIORITY PROCESS AND FINANCIAL ANALYSIS

Environmental Enhancement and Stewardship projects are implemented at the discretion of the Board. Projects may go through a ranking process to compete for Safe, Clean Water funds or the board may direct that other available revenue be used to implement the proposed projects. The inclusion of these projects in the Fiscal Year 2013/14 CIP has been approved by the Board. The priority criteria used to evaluate these projects are included in Appendix A.

Implementation of the Mitigation projects is considered non-discretionary since they are needed to meet California Environmental Quality Act (CEQA) or regulatory permit commitments approved by the Board. Funding for mitigation projects is allocated without a prioritization process.

Financial analysis of the following funding sources for Water Resources Stewardship capital improvements was conducted to determine if there are limitations to funding currently planned capital projects.

- Watershed and Stream Stewardship Fund
- Safe, Clean Water Fund
- Water Enterprise Fund

Funding needs for approved Water Resources Stewardship projects can be met.

Water Resources Stewardship Capital Improvements

The following table is a project funding schedule for water resources stewardship capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2012/13.

Water Resources Stewardship Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY12	FY13	FY13 Unspent	FY14	FY15	FY16	FY17	FY18	FY19-28	TOTAL
	ENVIRONMENTAL COMMITMENT										
91854002	Jacques Gulch Restoration	5,593	35	133	-	-	-	-	-	-	5,628
	ENVIRONMENTAL ENHANCEMENT										
26044001	Lake Almaden, Guadalupe Rv, Los Alamitos Ck Restoration	316	499	451	-	697	562	-	-	-	2,074
26444003	South Bay Salt Ponds Restoration	-	-	-	188	903	1,360	2,243	-	-	4,694
	MITIGATION										
91084018	Dam Maintenance Plan Mitigation	3,045	-	3,010	115	-	-	-	-	-	3,160
62184001	SMP Mitigation, Stream and Watershed Land Preservation	8,633	221	-	2,495	4,418	-	-	-	-	15,767
	STEWARDSHIP										
30154029s	Alviso Slough	5,250	626	1,233	2,337	6,691	5,065	211	219	266	20,665
00294001s	FAHCE Stevens Creek Fish Passage Enhancement	850	-	-	-	-	1,392	2,954	-	-	5,196
30154028	Gold Street Educational Center	2,605	34	-	76	-	-	-	-	-	2,715
26C40370	SCW Implementation Fund	-	-	-	-	1,731	3,825	3,715	14,032	37,785	61,088
	TOTAL	26,292	1,415	4,827	5,211	14,440	12,204	9,123	14,251	38,051	120,987

FY 2012/13 Funds to be reappropriated

The following table shows funding requirements from each funding source for mitigation capital improvements.

Water Resources Stewardship – Funding Sources ($K)

Fund Number	PROJECT NAME	Through FY12	FY13	FY13 Unspent	FY14	FY15	FY16	FY17	FY18	FY19-28	TOTAL
61	Water Utility Enterprise Fund	9,403	35	3,143	115	577	1,853	3,283	649	8,102	24,017
12	Watershed Stream Stewardship Fund	16,573	881	1,233	4,908	11,686	5,804	1,130	868	8,368	50,219
26	Safe, Clean Water and Natural Flood Protection Fund	316	499	451	188	2,177	4,547	4,710	12,734	21,580	46,751
	TOTAL	26,292	1,415	4,827	5,211	14,440	12,204	9,123	14,251	38,051	120,987

FY 2012/13 Funds to be reappropriated

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Project	**Jacques Gulch Restoration**
Program	Water Resources Stewardship – Commitment
Priority No.	85
Project No.	91854002
District Contact	Melanie Richardson mrichardson@valleywater.org

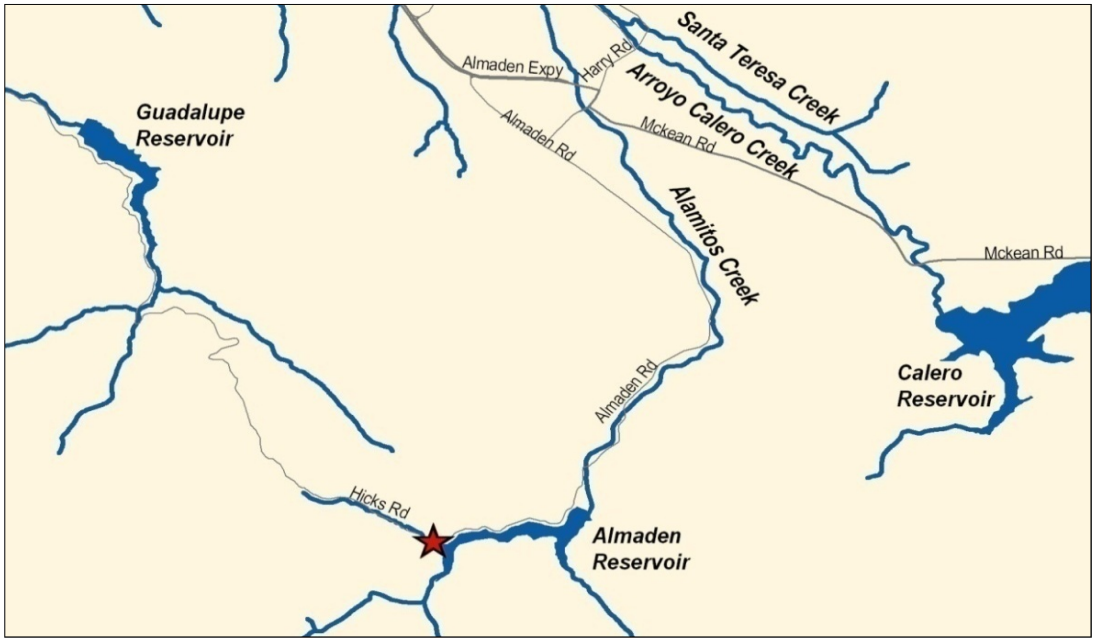
Geotechnical analysis of calcine deposits to determine mercury depth and concentration

PROJECT DESCRIPTION

This project plans, designs and constructs improvements to Jacques Gulch, a tributary to the Almaden Reservoir, to accomplish the following objectives:

- Remove mercury calcine deposits.
- Stabilize the stream banks and restore habitat along Jacques Gulch, consistent with provisions of the Consent Decree

PROJECT LOCATION



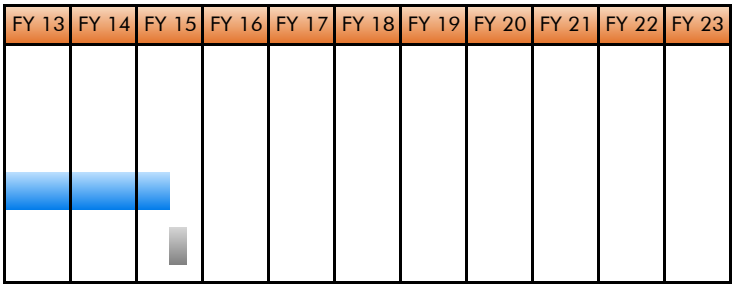
★ Project Location

SCHEDULE & STATUS

July 2003 to March 2015

Planning phase is complete. Design phase is complete. Construction phase includes 5 years of plant establishment monitoring.

Phase	Cost
Plan	1,543
Design	472
Construct	3,532
Closeout	49
	5,596



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
91854002-Jacques Gulch Restoration	5,363	132	33	78	0	0	0	0	5,606
with inflation	5,363	132	33	84	0	0	0	0	5,612

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
91854002-Jacques Gulch Restoration	5,593	35	133	0	0	0	0	0	0	5,628

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding exceeds planned expenditures by $16,000. Excess funds will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	5,266
Guadalupe Rubbish Disposal Company	125
County of Santa Clara	237
Total	**5,628**
County of Santa Clara - In-kind Services	4,000

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $5,000 per year, beginning in FY 2016. Increases are related to the anticipated need for annual inspection of the Alamitos Road culvert, and periodic vegetation and/or debris removal upstream and downstream of the culvert.

USEFUL LIFE: 50+ Years

Project	**Lake Almaden, Guadalupe River, Alamitos Creek Restoration**
Program	Water Resources Stewardship – Environmental Enhancement
Priority No.	35
Project No.	26044001
District Contact	Melanie Richardson mrichardson@valleywater.org

Looking southerly at Lake Almaden, which has fish with the highest concentrations of mercury in California in 2010.

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Guadalupe River from Blossom Hill Road to the Guadalupe Creek/Alamitos Creek confluence, and Alamitos Creek from the Guadalupe Creek confluence to Winfield Boulevard, including Lake Almaden, to accomplish the following objectives:

- Address state and federal requirements for protection of endangered species for activities related to water supply operations, dam maintenance program, and certain flood protection activities.
- Comply with regulatory requirements to reduce mercury contamination in fish.
- Restore stream function and incorporate geomorphologic features along portions of Guadalupe River and Alamitos Creek.
- Provide100-year level of flood protection extending from upstream of Blossom Hill Road to downstream of Winfield Boulevard.
- Enhance environmental and recreational features.

This project is funded for the planning and design phase. Funding for construction may be available from Safe, Clean Water, Priority D.

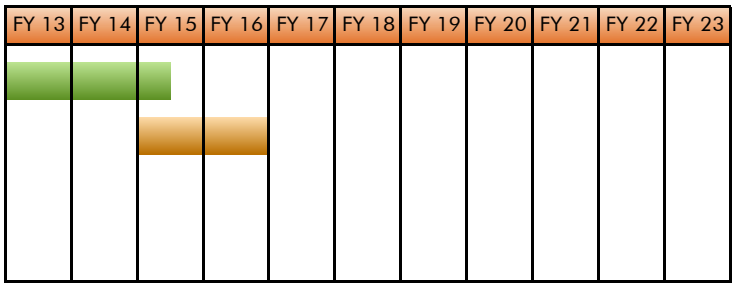
PROJECT LOCATION

SCHEDULE & STATUS

July 2011 to June 2016

Planning Phase and some Design Tasks. Construction is not funded at this time.

Phase	Cost
Plan	851
Design	1,098
Construct	1
Closeout	-
	1,950



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
26044001-Lake Almaden, Guadalupe River, Alamitos Creek Restoration	101	263	372	717	500	0	0	0	1,953
with inflation	101	263	372	776	562	0	0	0	2,074

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
26044001-Lake Almaden, Guadalupe River, Alamitos Creek Restoration	316	499	451	0	697	562	0	0	0	2,074

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	800
SCWD Safe Clean Water Fund	1,274
Total	**2,074**

OPERATING COST IMPACTS

Planning Phase Only: No operating cost impacts are expected from the completion of this phase of the project.

USEFUL LIFE: 100 Years

Project	**South Bay Salt Ponds Restoration**
Program	Water Resources Stewardship - Environmental Enhancement
Priority No.	57
Project No.	26444003
District Contact	Chris Elias celias@valleywater.org

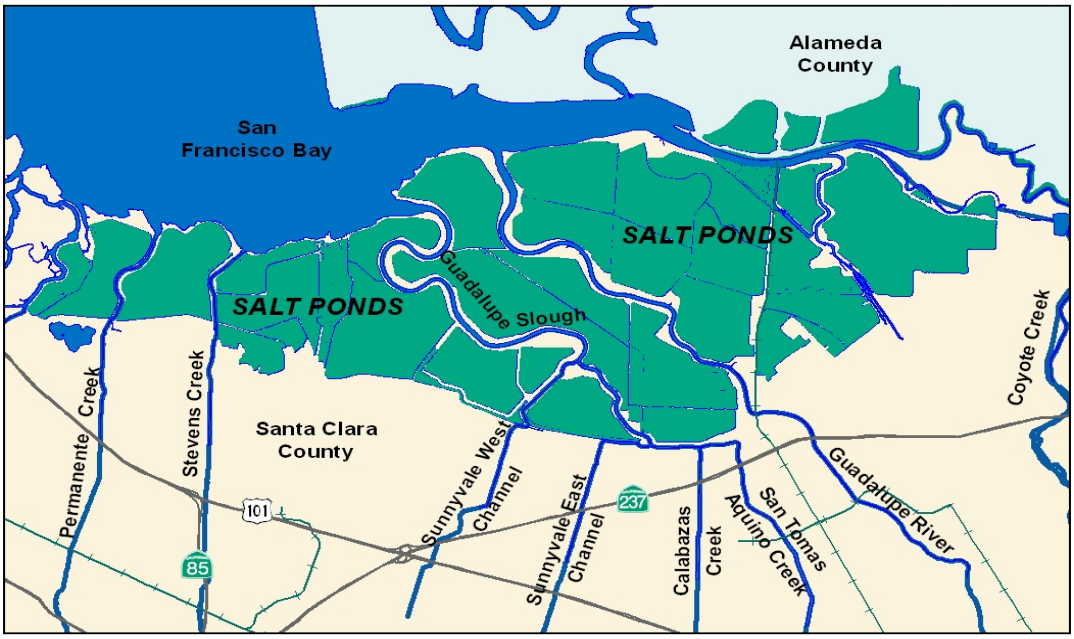
View of one of the salt evaporator facilities near Alviso

PROJECT DESCRIPTION

This project implements a planning study to investigate possible improvements to the South Bay Salt Ponds to accomplish the following objectives:

- Provide for beneficial reuse of dredge material, including materials excavated from the District's Stream Maintenance Program
- Provide sediment disposal, storage, and reuse for a 50 to 100 year period
- Examine restoration opportunities for riparian and wildlife habitat

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

June 2013 to July 2017

Planning Study Only

Phase	Cost
Plan	4,149
Design	-
Construct	-
Closeout	-
	4,149

FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
26444003-South Bay Salt Ponds Restoration	0	0	188	835	1,209	1,917	0	0	4,149
with inflation	0	0	188	903	1,360	2,243	0	0	4,694

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
26444003-South Bay Salt Ponds Restoration	0	0	0	188	903	1,360	2,243	0	0	4,694

FUNDING SOURCES

(in thousands $)

Safe, Clean Water Fund	4,694
Other Funding Sources	0
Total	4,694

OPERATING COST IMPACTS

Planning Phase Only: The completion of this phase of the project is not anticipated to increase or decrease annual operating costs.

USEFUL LIFE: N/A

Project	**Dam Maintenance Mitigation Program**
Program	Water Resources Stewardship – Mitigation
Priority No.	99
Project No.	91084018
District Contact	Frank Maitski fmaitski@valleywater.org

Settings such as this will be used for Habitat Preservation. Actual locations will differ.

PROJECT DESCRIPTION

This project preserves and/or restores habitat for California tiger salamander, red-legged frog and sensitive serpentine plants on lands in the Santa Clara Basin and implements appropriate restorations in these lands to accomplish the following objectives:

- Provide 80 acres of Dam Maintenance Program mitigation credits through preservation and/or restoration in Santa Clara County to provide long-term protection of unique and valuable resources in a largely self-sustaining setting. These credits will offset impacts on habitats that are known to support California tiger salamanders, California red-legged frogs, wetlands, serpentine plants as well as other sensitive plants.
- Perform baseline biological studies in order to determine potential credits of prospective land parcels.

PROJECT LOCATION

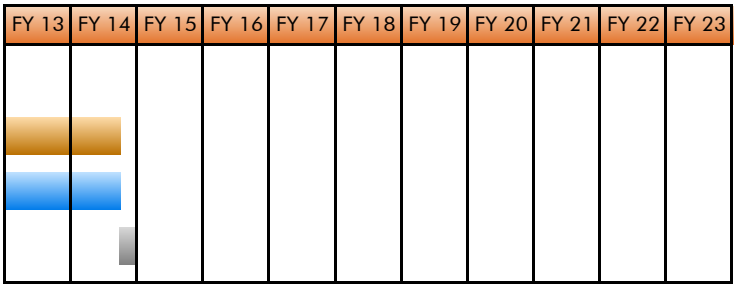
The project will purchase multiple sites for preservation in Santa Clara Basin as they become available.
No map is provided.

SCHEDULE & STATUS

September 2009 to May 2014

Land acquisition is shown in the design phase, and restoration of site habitat will be shown in the construction phase.

Phase	Cost
Plan	14
Design	3,123
Construct	16
Closeout	1
	3,154



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
91084018-Dam Maintenance Mitigation Program	14	21	3,125	0	0	0	0	0	3,160
with inflation	14	21	3,125	0	0	0	0	0	3,160

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
91084018-Dam Maintenance Mitigation Program	3,045	0	3,010	115	0	0	0	0	0	3,160

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,160
Other Funding Source	0
Total	3,160

OPERATING COST IMPACTS

Operating costs will vary, depending on the type of acquisition ownership and requirements for maintenance of each site. Once the sites have been identified, operating costs will be determined based on the existing conditions and maintenance identified for each site.

USEFUL LIFE: 50+ Years

Project	**SMP Mitigation Stream and Watershed Land Preservation**
Program	Water Resources Stewardship – Mitigation
Priority No.	99
Project No.	62184001
District Contact	Melanie Richardson mrichardson@valleywater.org

Creek-side settings such as this will be used for stream and watershed land preservation. Actual locations will differ.

PROJECT DESCRIPTION

This project preserves streams and watershed lands in the Santa Clara Basin and implements appropriate restorations in these lands to accomplish the following objectives:

- Provide 71 acres of Stream Maintenance Program (SMP) mitigation credits through preservation of approximately 720 to 950 acres of streams and watershed lands to provide long-term protection of unique and valuable local stream resources and watersheds, in a largely self-sustaining setting. Approximately 108 acres of the total land preservation will be for protection of riparian and upland habitats that are known to support California red-legged frogs and Western pond turtles.
- Provide approximately 10 acres of SMP mitigation credits through environmental restoration on the lands acquired.
- Seek opportunities to partner with other organizations to accomplish the project objectives.

PROJECT LOCATION

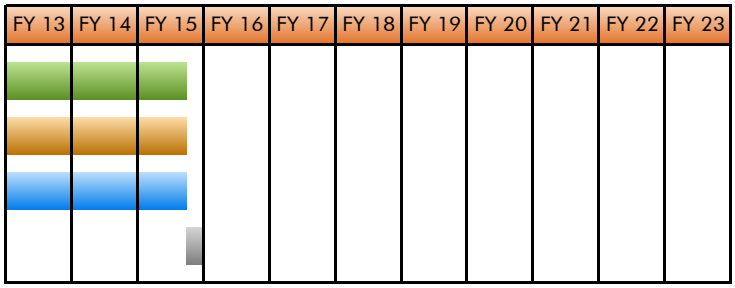
The project will purchase multiple sites for preservation in Santa Clara Basin as they become available.
No map is provided.

SCHEDULE & STATUS

July 2003 to June 2015

Some environmental tasks in the planning phase continue thru construction. Land acquisition is shown in the design phase, with restoration of site habitat shown in the construction phase.

Phase	Cost
Plan	2,129
Design	13,161
Construct	101
Closeout	20
	15,411



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
62184001-SMP Mitigation Stream and Watershed Land Preservation	6,914	1,940	2,495	4,085	0	0	0	0	15,434
with inflation	6,914	1,940	2,495	4,418	0	0	0	0	15,767

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
62184001-SMP Mitigation Stream and Watershed Land Preservation	8,633	221	0	2,495	4,418	0	0	0	0	15,767

Adjusted Budget includes adopted budget plus a planned budget adjustment of $221,000.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	15,767
Other Funding Source	0
Total	15,767

OPERATING COST IMPACTS

Operating cost will vary, depending on the type of acquisition ownership and requirements for maintenance of each site. The Stevens Canyon Ranch Conservation Easement was acquired in December 2006 and there are no operating impacts to the District. The property owner, Mid-Peninsula Regional Open Space District is responsible for maintenance and management of the site.

USEFUL LIFE: 50+ Years

Project	**Alviso Slough**
Program	Water Resources Stewardship
Priority No.	24
Project No.	30154029s
District Contact	Melanie Richardson mrichardson@valleywater.org

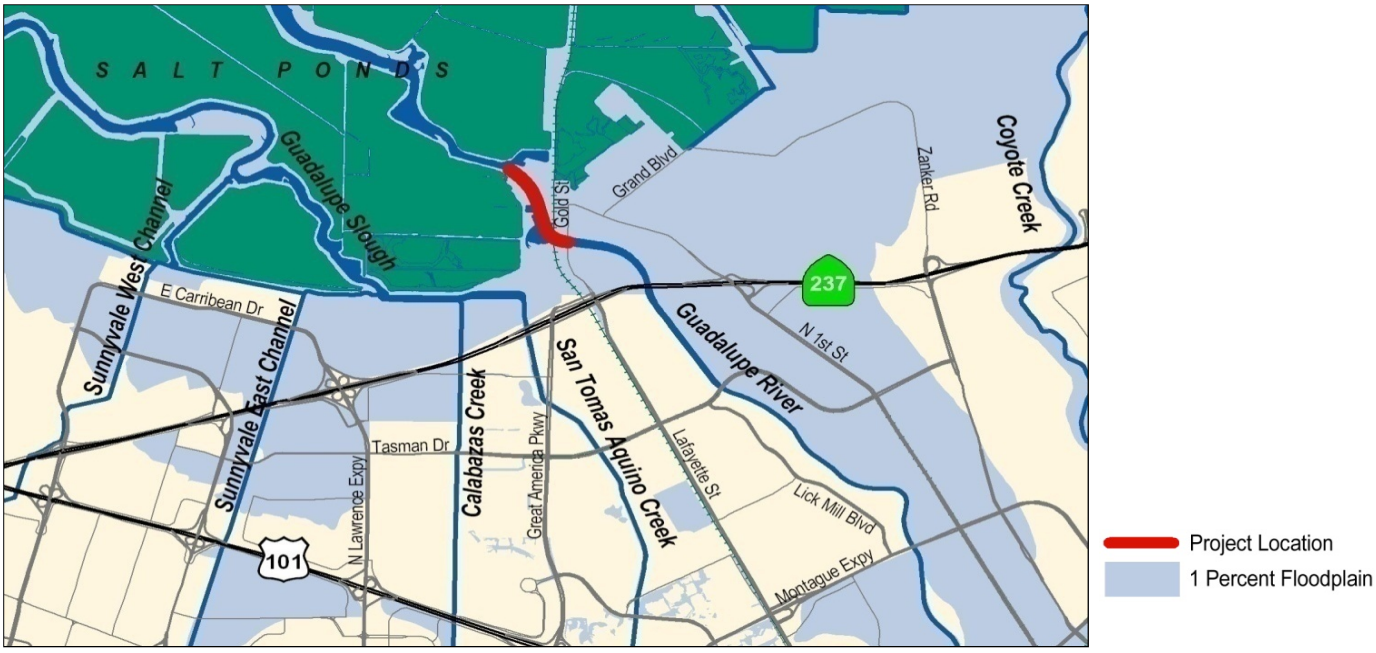
Alviso Slough as seen from Gold Street Bridge

PROJECT DESCRIPTION

This project plans, designs and provides for the removal of vegetation over 3.7 acres, and dredging within that same footprint to a depth of 8 feet from Alviso Slough between the Gold Street Bridge and County Marina to accomplish the following objectives:

- Restore the slough's open water channel width to conditions that existed prior to 1983.
- Improve navigation so the community can expand on boating and other recreational opportunities.
- Restore historic and public access and aesthetics for the Alviso community.
- Maintain one-percent flood protection in Alviso Slough.
- Reduce mosquito nuisance.
- Expand open water habitat and inundated mudflat habitat of the slough.
- Promote integration with the Salt Pond Restoration Program to bring salt water connections to the Lower Guadalupe River.

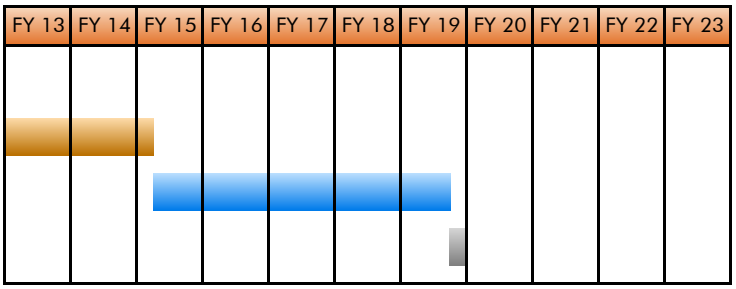
PROJECT LOCATION



SCHEDULE & STATUS

November 2004 to June 2014

Phase	Cost
Plan	3,706
Design	5,419
Construct	10,691
Closeout	30
	19,846



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
30154029-Alviso Slough - Planning	2,894	0	0	0	0	0	0	0	2,894
with inflation	2,894	0	0	0	0	0	0	0	2,894
30154030-Alviso Slough - Design & Construction	954	795	3,570	6,370	4,729	180	180	210	16,988
with inflation	954	795	3,570	6,691	5,065	211	219	266	17,770
TOTAL	3,848	795	3,570	6,370	4,729	180	180	210	19,882
with inflation	3,848	795	3,570	6,691	5,065	211	219	266	20,664

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

.	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
30154029-Alviso Slough - Planning	2,894	0	0	0	0	0	0	0	0	2,894
30154030-Alviso Slough - Design & Construction	2,356	626	1,233	2,337	6,691	5,065	211	219	266	17,770
TOTAL	5,250	626	1,233	2,337	6,691	5,065	211	219	266	20,664

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	20,664
Other Funding Source	0
Total	20,664

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $4 million every 3 years, beginning in FY 2020, for on-going sediment removal.

USEFUL LIFE: Not Available

Project	**FAHCE Stevens Creek Fish Passage Enhancement**
Program	Water Resources Stewardship
Priority No.	65
Project No.	00294001s
District Contact	Melanie Richardson mrichardson@valleywater.org

Example of a fish ladder to be modified or reconstructed for better fish passage

PROJECT DESCRIPTION

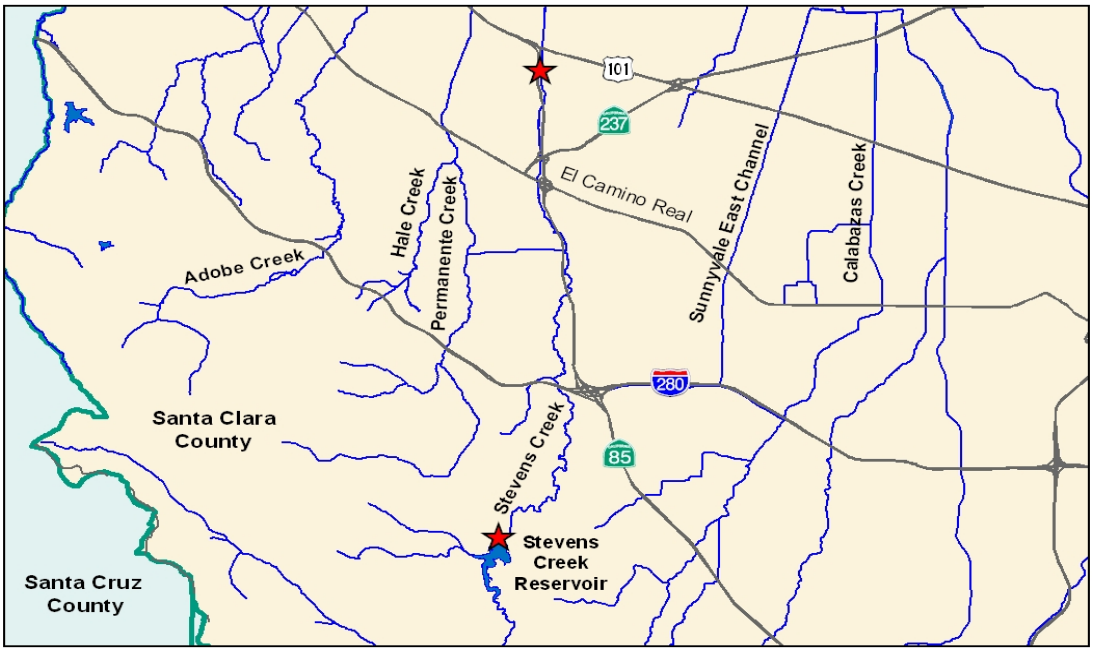
This project plans, designs, and constructs improvements to the Moffett Boulevard fish ladder to improve fish passage as well as a multiport outlet at Stevens Creek Dam to accomplish the following objectives:

- Restore and maintain a healthy steelhead trout population in the Stevens Creek watershed.
- Provide a suitable spawning and rearing habitat below Stevens Creek Dam within a cold water management zone determined on an annual basis through the development of an operations plan.
- Provide adequate passage for adult steelhead trout to reach suitable spawning and rearing habitat and for out-migration of juveniles.

This project is accounted for in the following job numbers:

- 00294001—Fish Passage Planning
- 00C40145—Moffett Boulevard Fish Ladder
- 00C40198—Multi-Port Outlet at Dam

PROJECT LOCATION



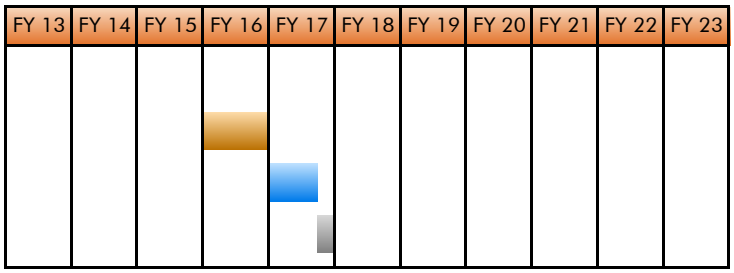
★ Project Location

SCHEDULE & STATUS

July 2008 to June 2018

Planning phase is complete. Project on hold pending completion of the Three Creeks Habitat Conservation Plan, to be done in a separate operating project.

Phase	Cost
Plan	942
Design	1,146
Construct	2,695
Closeout	31
	4,814



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
00294001-FAHCE Stevens Ck Fish Passage Planning	850	0	0	0	0	0	0	0	850
with inflation	850	0	0	0	0	0	0	0	850
00C40145-FAHCE Stevens Ck Fish Ladder at Moffett Blvd	0	0	0	0	986	1,762	0	0	2,747
with inflation	0	0	0	0	1,109	1,907	0	0	3,016
00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet	0	0	0	0	252	965	0	0	1,216
with inflation	0	0	0	0	283	1,047	0	0	1,330
TOTAL	**850**	**0**	**0**	**0**	**1,238**	**2,726**	**0**	**0**	**4,814**
with inflation	**850**	**0**	**0**	**0**	**1,392**	**2,953**	**0**	**0**	**5,196**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
00294001-FAHCE Stevens Ck Fish Passage Planning	850	0	0	0	0	0	0	0	0	850
00C40145-FAHCE Stevens Ck Fish Ladder at Moffett Blvd	0	0	0	0	0	1,109	1,907	0	0	3,016
00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet	0	0	0	0	0	283	1,047	0	0	1,330
TOTAL	**850**	**0**	**0**	**0**	**0**	**1,392**	**2,953**	**0**	**0**	**5,196**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund–10%	520
SCVWD Water Utility Enterprise Fund–90%	4,676
Total	**5,196**

OPERATING COST IMPACTS

Operating costs will be determined during the planning phase.

USEFUL LIFE: 50 Years

Project	**Gold Street Educational Center**
Program	Water Resources Stewardship
Priority No.	8
Project No.	30154028
District Contact	Melanie Richardson mrichardson@valleywater.org

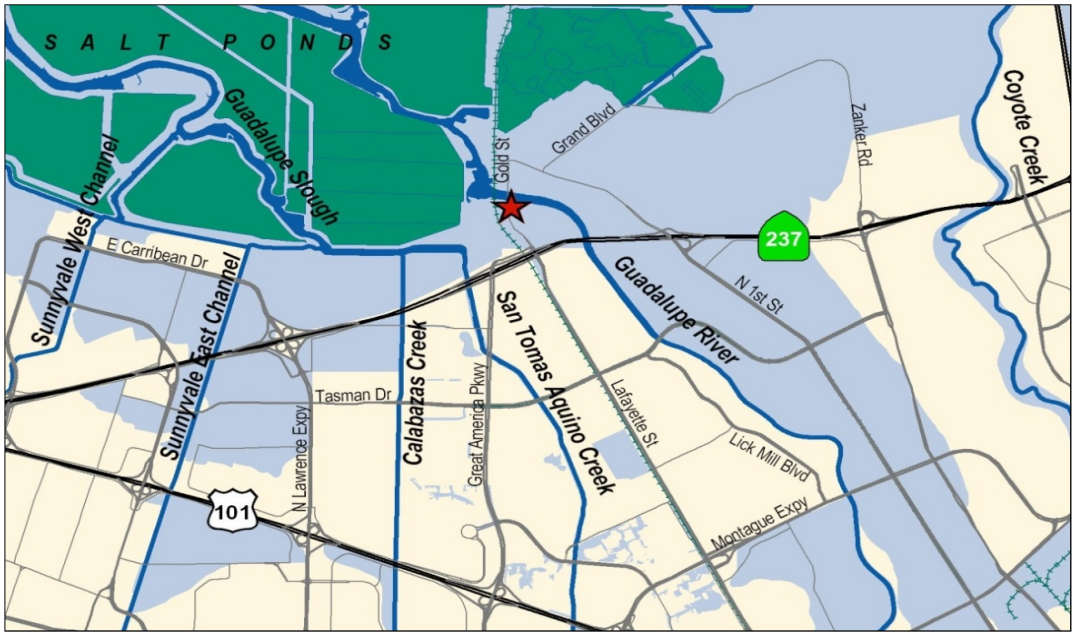
Gold Street Educational Center on State Lands Commission property adjacent to the Guadalupe River

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Gold Street, adjacent to the Guadalupe River in Alviso, to provide an outdoor educational center for the Alviso community that may incorporate the following elements:

- Interpretive displays.
- Landscaping with native vegetation.
- A trailhead that links to recreation trails.

PROJECT LOCATION



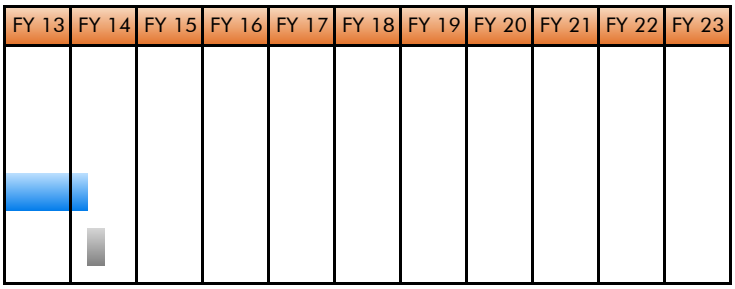
Project Location
1 Percent Floodplain

SCHEDULE & STATUS

December 2004 to December 2013

Planning and Design phases are complete.

Phase	Cost
Plan	382
Design	908
Construct	1,396
Closeout	10
	2,696



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
30154028-Gold Street Educational Center	2,624	15	76	0	0	0	0	0	2,715
with inflation	2,624	15	76	0	0	0	0	0	2,715

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
30154028-Gold Street Educational Center	2,605	34	0	76	0	0	0	0	0	2,715

Adjusted Budget includes adopted budget plus a planned budget adjustment of $34,000.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	2,715
Other Funding Source	0
Total	**2,715**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $30,000 per year, beginning in FY 2015. Increases are for vegetation and landscape maintenance, security services, and restroom maintenance and cleaning.

USEFUL LIFE: 50+ Years

Project	**SCW Implementation Fund**
Program	Water Resources Stewardship
Priority No.	40
Project No.	26C40370
District Contact	TBD TBD

Aerial view looking downstream of the Ogier Pond complex. This is just one possible site under consideration.

PROJECT DESCRIPTION

This project is a placeholder for future capital projects that have not been fully defined. These projects will implement SCW objectives and are likely to include projects such as Comer Debris Basin, and construction of Lake Almaden-Guadalupe River-Alamitos Creek Restoration. Funds will be moved from this project into actual projects once they have been defined and vetted to ensure they meet the following program objectives:

- Create favorable stream conditions to restore and maintain fisheries
- Increase the stability of stream channels through construction based on geomorphic principals
- Acquisition of property for the conservation of habitat

PROJECT LOCATION

No map is provided for this project

SCHEDULE & STATUS

July 2014 to June 2028

Data shown here is based on preliminary information. Specific projects identified to move forward will require further refinement. A Phase schedule will be defined in the planning phase.

Phase	Cost
Plan	8,461
Design	25,327
Construct	12,773
Closeout	446
	47,007

FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
26C40370-SCW Implementation Fund	0	0	0	1,600	3,400	3,175	12,088	26,744	47,007
with inflation	0	0	0	1,731	3,825	3,714	14,031	37,785	61,086

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
26C40370-SCW Implementation Fund	0	0	0	0	1,731	3,825	3,714	14,031	37,785	61,086

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	39,982
SCVWD Water Utility Enterprise Fund	10,552
SCVWD Watershed and Stream Stewardship Fund	10,552
Total	61,086

OPERATING COST IMPACTS

Operating costs will be determined during the planning phase.

USEFUL LIFE: Not Availabel

Building and Grounds Capital Improvements

BUILDINGS AND GROUNDS OVERVIEW

The District's Almaden-Winfield campus occupies nearly 50 acres along Almaden Expressway in the City of San Jose. The District manages the campus to ensure a healthful and safe work environment for employees and visitors. The campus includes 10 buildings, multiple parking lots, a corporation yard, landscaping, and other appurtenances.

With most of the buildings on campus over 30 years old, the rehabilitation needs increased steadily in recent years. The District administers an asset management program for its buildings and grounds infrastructure that includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended over its useful life.

In January of 2012 the Board approved recommendations from the Ad Hoc Committee to implement the Campus Master Plan which includes the following:

- Repair and rehabilitate the existing Corporation yard.
- Repair Winfield Warehouse and Winfield Vegetation buidlings.
- Replace the Maintenance Office and Ready Room buildings.

Major Capital Improvements Identified in the CIP

- Almaden & Winfield Campus Small Capital Improvements
- Winfield Capital Improvements

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to rate the buildings and grounds projects against other types of capital improvements. The priority criteria used are included in Appendix A.

Financial analysis of the following funding sources for buildings and grounds capital improvements was conducted to determine if there are limitations to funding all the proposed capital projects.

- Watershed and Stream Stewardship Fund
- General Fund
- Water Enterprise Fund

Results of this year's prioritization process and financial analysis are summarized in Appendix B. The process concluded that the Almaden and Winfield Campus Small Capital Improvements will continue to be funded at $2 million per year to meet the higher priority Buildings and Grounds needs. The first of the projects from the Campus Master Plan began in FY2012/13 and was incorporated into the CIP. At this time there is no funding available to implement the other projects identified in the Master Plan.

Building and Grounds Capital Improvements

The following table is a project funding schedule for buildings and grounds capital improvements resulting from this year's priority process and financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2012/13.

Buildings and Grounds Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY12	FY13	FY13 Unspent	FY14	FY15	FY16	FY17	FY18	FY19-28	TOTAL
60204016	Almaden and Winfield Campus, Small Capital Improvemer	n/a	2,510	-	2,080	2,163	2,250	2,340	2,433	13,707	27,483
60204021	Winfield Capital Improvements	-	190	-	1,560	7,738	534	-	-	-	10,022
	TOTAL	-	2,700	-	3,640	9,901	2,784	2,340	2,433	13,707	37,505

FY 2012/13 Funds to be reappropriated

The following table shows funding requirements from each funding source for buildings and grounds capital improvements.

Buildings and Grounds – Funding Sources ($K)

Fund Number	PROJECT NAME	Through FY12	FY13	FY13 Unspent	FY14	FY15	FY16	FY17	FY18	FY19-28	TOTAL
11	General Fund	-	2,700	-	3,640	9,901	2,784	2,340	2,433	13,707	37,505
	TOTAL	-	2,700	-	3,640	9,901	2,784	2,340	2,433	13,707	37,505

FY 2012/13 Funds to be reappropriated

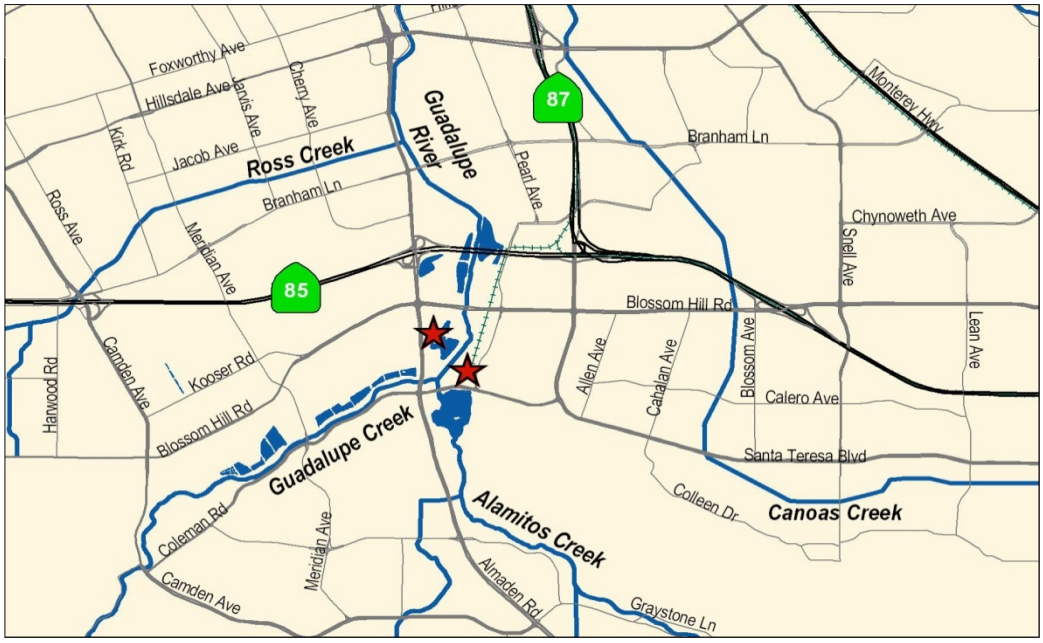
Project	**Almaden and Winfield Campus, Small Capital Improvements**
Program	Buildings and Grounds
Priority No.	73
Project No.	60204016
District Contact	Ravi Subramanian rsubramanian@valleywater.org

Front view of the Headquarters building at the Almaden Campus

PROJECT DESCRIPTION

This project reserves funding for capital maintenance and replacement of buildings, grounds, and facilities on the Almaden and Winfield campus, to provide a healthy and safe environment for staff and visitors.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

Improvements will be managed on an as-needed basis throughout the year.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
60204016-Almaden and Winfield Campus, Small Capital Improvements	n/a	2,450	2,080	2,000	2,000	2,000	2,000	10,000	22,530
with inflation	n/a	2,450	2,080	2,163	2,250	2,340	2,433	13,707	27,423

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
60204016-Almaden and Winfield Campus, Small Capital Improvements	n/a	2,510	0	2,080	2,163	2,250	2,340	2,433	13,707	27,483

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding in the current fiscal year exceeds the planned expenditure by $60,000. Excess funds will be returned to the Fund Reserve at the end of each fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	27,483
Other Funding Source	0
Total	27,483

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs. The purpose of these maintenance projects is to avoid unnecessary financial impact caused by building shut-down and work stoppage.

USEFUL LIFE: Not Available

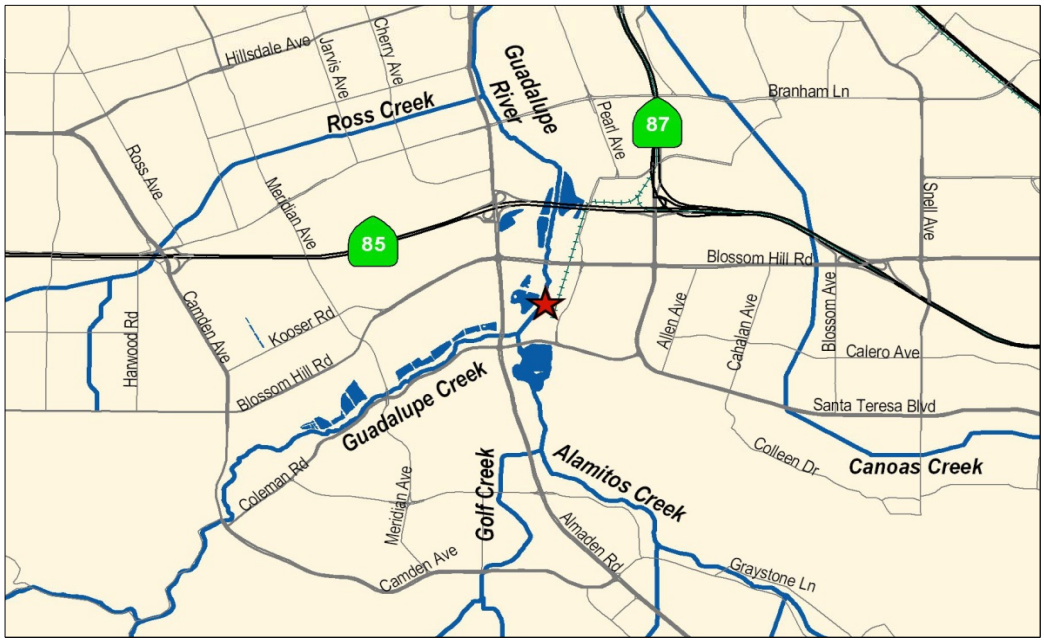
Project	**Winfield Capital Improvements**
Program	Buildings and Grounds
Priority No.	70
Project No.	60204021
District Contact	Katherine Oven koven@valleywater.org

A view of the District's Vegetation Management building on Winfield Blvd.

PROJECT DESCRIPTION

This project is to repair, maintain and improve the Winfield Warehouse and Winfield Vegetation Buildings, to provide a healthy and safe environment for staff and visitors. This includes improving restroom and shower facilities, enclosing the open section of the warehouse and providing a safe and fully functioning Class IV workshop, seismic upgrades and a new roof.

PROJECT LOCATION

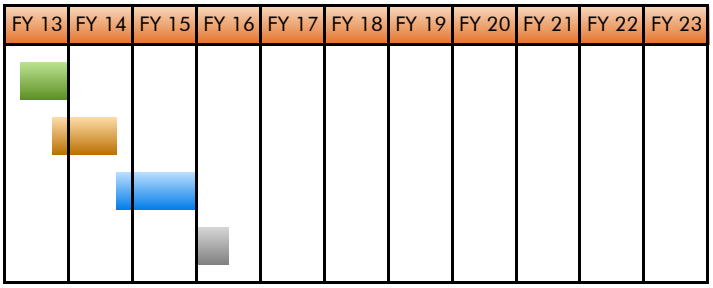


★ Project Location

SCHEDULE & STATUS

September 2012 to October 2015

Phase	Cost
Plan	370
Design	1,380
Construct	7,853
Closeout	25
	9,628



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
60204021-Winfield Capital Improvements	0	190	1,560	7,403	475	0	0	0	9,628
with inflation	0	190	1,560	7,738	534	0	0	0	10,022

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
60204021-Winfield Capital Improvements	0	190	0	1,560	7,738	534	0	0	0	10,022

Adjusted Budget includes adopted budget plus a planned budget adjustment for $65,000.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	10,022
Other Funding Source	0
Total	10,022

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs. The purpose of the capital improvement is to avoid unnecessary financial impact caused by building shut-down and work stoppage.

USEFUL LIFE: Not Available

Information Technology Capital Improvements

INFORMATION TECHNOLOGY OVERVIEW

The District relies on its software systems and technology infrastructure to help manage its core responsibilities of water supply, flood protection, and environmental stewardship. Recognizing the importance of Information Technology to its success, the District completed the Information Systems Master Plan (ISMP) in 2012. The ISMP is an 8-year plan consisting of 32 capital and non-capital improvement projects.

Major Capital Improvements Identified in the CIP

- Microwave Telecommunications System Upgrade
- PeopleSoft System Upgrade and Expansion

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to rate the information technology projects against other types of capital improvements. The priority criteria used are included in Appendix A.

Financial analysis of the following funding sources for information technology capital improvements was conducted to determine if there are limitations to funding all the planned capital projects.

- Watershed and Stream Stewardship Fund
- General Fund
- Water Enterprise Fund

Results of this year's prioritization process and financial analysis are summarized in Appendix B. Funding needs for approved Information Technology projects can be met.

Information Technology Capital Improvements

The following table is a project funding schedule for information technology capital improvements resulting from this year's priority process and financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2012/13.

Information Technology Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY12	FY13	FY13 Unspent	FY14	FY15	FY16	FY17	FY18	FY19-28	TOTAL
94084006	Microwave Telecommunications System	4,441	-	940	22	-	-	-	-	-	4,463
60274062	PeopleSoft System Upgrade & Expansion	-	-	-	4,099	1,066	806	732	302	-	7,005
	TOTAL	4,441	-	940	4,121	1,066	806	732	302	-	11,468

FY 2012/13 Funds to be reappropriated

The following table shows funding requirements from each funding source for information technology capital improvements.

Information Technology – Funding Sources ($K)

Fund Number	PROJECT NAME	Through FY12	FY13	FY13 Unspent	FY14	FY15	FY16	FY17	FY18	FY19-28	TOTAL
61	Water Utility Enterprise Fund	4,441	-	940	22	-	-	-	-	-	4,463
11	General Fund	-	-	-	4,099	1,066	806	732	302	-	7,005
	TOTAL	4,441	-	940	4,121	1,066	806	732	302	-	11,468

FY 2012/13 Funds to be reappropriated

Project	**Microwave Telecommunications System**
Program	Information Technology
Priority No.	30
Project No.	94084006
District Contact	Ravi Subramanian rsubramanian@valleywater.org

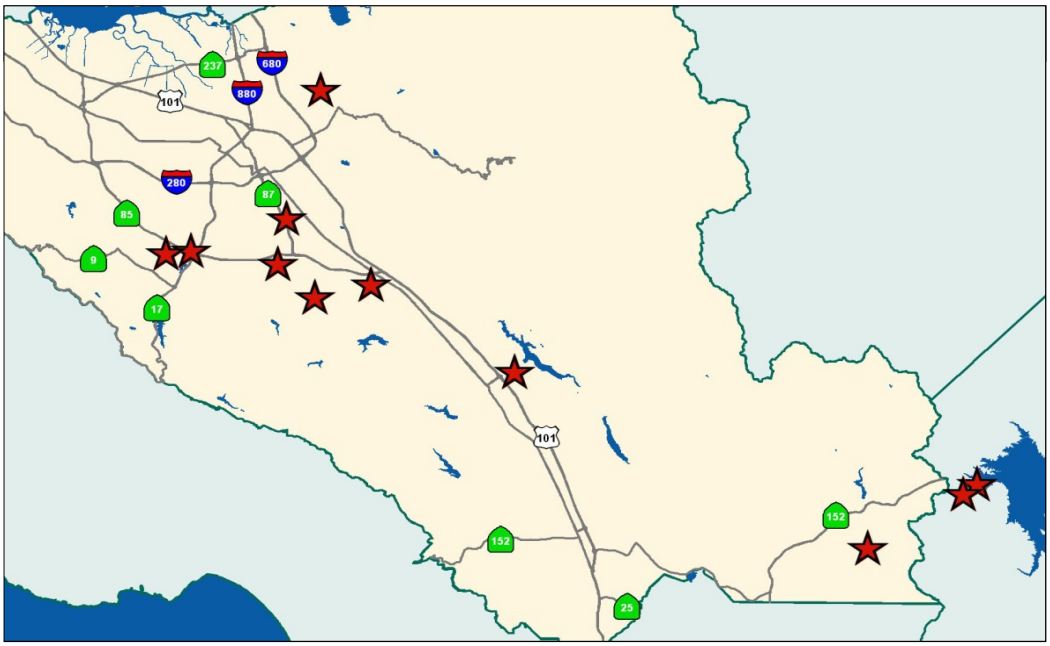
Microwave tower at the County Communications Center

PROJECT DESCRIPTION

This project plans, designs, and installs microwave links at thirteen district sites to accomplish the following objectives:

- Expand the abilities of public agencies in Santa Clara County to communicate with each other quickly and securely during day-to-day operations, large-scale events, and regional disasters.
- Participate in a countywide digital microwave network which is the primary mechanism for real-time data delivery between network participant public safety interoperability applications.
- Provide reliable, high-speed, dedicated data links between mission critical facilities and the main district campus.

PROJECT LOCATION



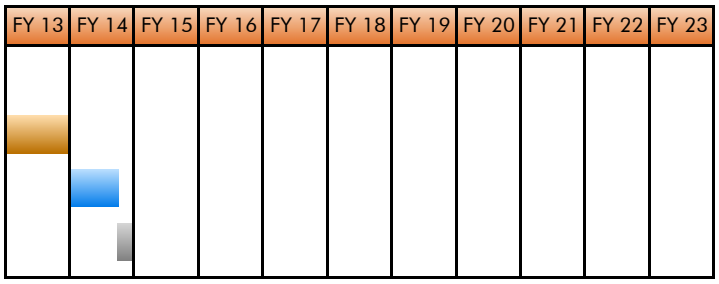
★ Project Location

SCHEDULE & STATUS

April 2009 to June 2014

Most planning tasks were done in a separate project. Installation is shown in the construction phase.

Phase	Cost
Plan	32
Design	296
Construct	1,548
Closeout	21
	1,897



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
94084006-Microwave Telecommunications System	3,451	50	962	0	0	0	0	0	4,463
with inflation	3,451	50	962	0	0	0	0	0	4,463

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
94084006-Microwave Telecommunications System	4,441	0	940	22	0	0	0	0	0	4,463

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

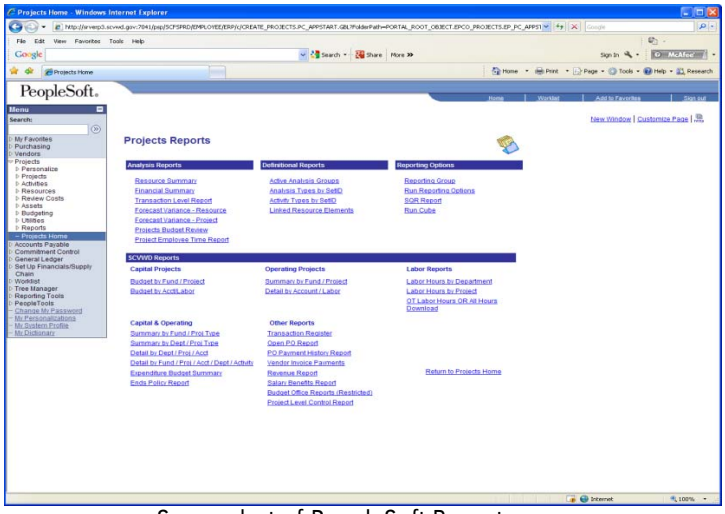
SCVWD Water Utility Enterprise Fund	4,291
San Benito County Water District	172
Total	**4,463**

OPERATING COST IMPACTS

Completion of this project is anticipated to increase annual operating costs by approximately $88,500 per year, beginning in FY 2015, for preventative and corrective maintenance of radio equipment, lease of antenna sites, and ongoing training.

USEFUL LIFE: 25 Years

Project	**PeopleSoft System Upgrade and Expansion**
Program	Information Technology
Priority No.	31
Project No.	60274062
District Contact	Ravi Subramanian rsubramanian@valleywater.org



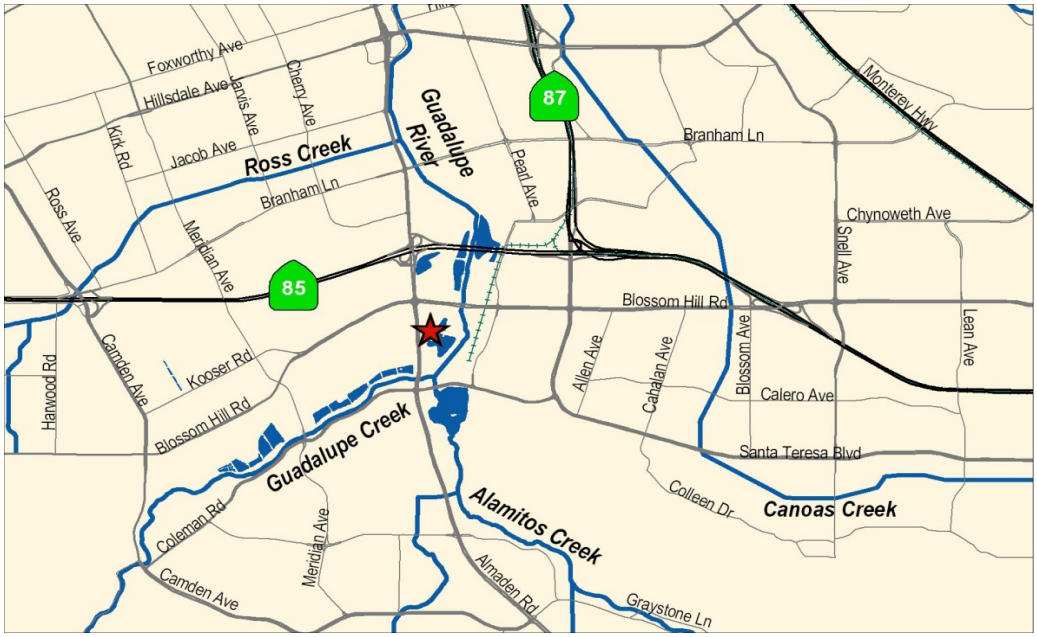
Screenshot of PeopleSoft Reports page
from the District's intranet

PROJECT DESCRIPTION

This project plans, designs, and implements improvements to the existing PeopleSoft system in order to accomplish the following objectives:

- Ensure the District has a current and functionally robust enterprise resource planning (ERP) solution, incorporating finance/HR, timekeeping, planning and budgeting, and procurement functionality.
- Fully automate the District's financial and human resources management functions
- Automate the tracking and reporting of the District's labor effort and employee leave
- Automatically apply the District's business rules to employee time records

PROJECT LOCATION

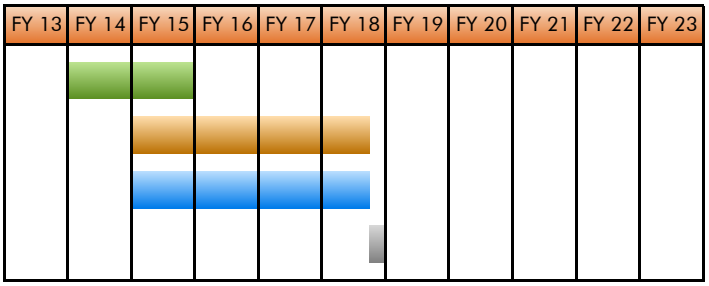


★ Project Location

SCHEDULE & STATUS

July 2014 to June 2018

Phase	Cost
Plan	185
Design	1,436
Construct	5,129
Closeout	4
	6,754



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Future	
60274062-PeopleSoft System Upgrade and Expansion	0	0	4,099	1,005	738	651	261	0	6,754
with inflation	0	0	4,099	1,066	806	732	302	0	7,005

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY12	FY13		FY14	FY15	FY16	FY17	FY18	Future	
60274062-PeopleSoft System Upgrade and Expansion	0	0	0	4,099	1,066	806	732	302	0	7,005

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	7,005
Other Funding Sources	0
Total	7,005

OPERATING COST IMPACTS

Upon completion of this project, 1 full-time employee will be needed for expanded technical support for new system modules and features and to continue with operational refinements, enhancements, integrations, report development, etc. on an on-going annual basis. PeopleSoft software maintenance fees are required on an annual recurring basis and projected to increase by 3% each year. The projected software maintenance fee for FY 2019 is approximately $164,324.

USEFUL LIFE: 5 Years

Financial Planning and Summary

CIP FINANCIAL PLANNING

Board policy regarding financial planning and budgeting provides the foundation for CIP financial planning. The policy states:

Executive Limitation EL-4, "Financial planning for any fiscal year shall be aligned with the Board's Ends, not risk fiscal jeopardy, and be derived from a multi-year plan."

> Executive Limitation EL-4.3, "A BAO shall include credible projection of revenues and expenses, separation of capital and operational items, cash flow, and disclosure of planning assumptions."
>
> Executive Limitation EL-4.4, "A BAO shall plan the expenditure in any budget period within the funds that are conservatively projected to be received or appropriated from reserves in that period."

KEY REVENUES SOURCES

Water Charges

- Water charges include a ground water production charge, which is equivalent to the basic user charge, and is associated with the benefit of managing groundwater supplies. The groundwater charge is applied to water extracted from the groundwater basin in Zones W-2 and W-5. The basic user charge is applied to other types of water delivered by the District. There are two rates: one for agricultural water and one for municipal and industrial water.

- A treated water surcharge, which is associated with the benefit of receiving treated water, is levied in addition to the basic user charge on water delivered from the District's water treatment plants.

Property Tax

Santa Clara County allocates property tax revenue to the District from ad valorem taxes levied on land within the county.

Special Parcel Tax

A special parcel tax, with a 2016 sunset, was approved by the voters in Santa Clara County in November 2000. This revenue source was restricted to financing the costs of the District's Clean, Safe Creeks and Natural Flood Protection Program. In November 2012 the special parcel tax was continued by voter approval to 2028. This revenue can be used for both the continuing Clean, Safe Creeks and new Safe, Clean Water programs.

Benefit Assessments

Benefit assessment revenue consists of levies approved by voters in 1986 and 1990 to support financing for flood control capital improvements. The current FY 2013/14 budget amount is approximately 1.25 times the duly authorized annual debt service requirements for each Watershed.

Capital Reimbursements

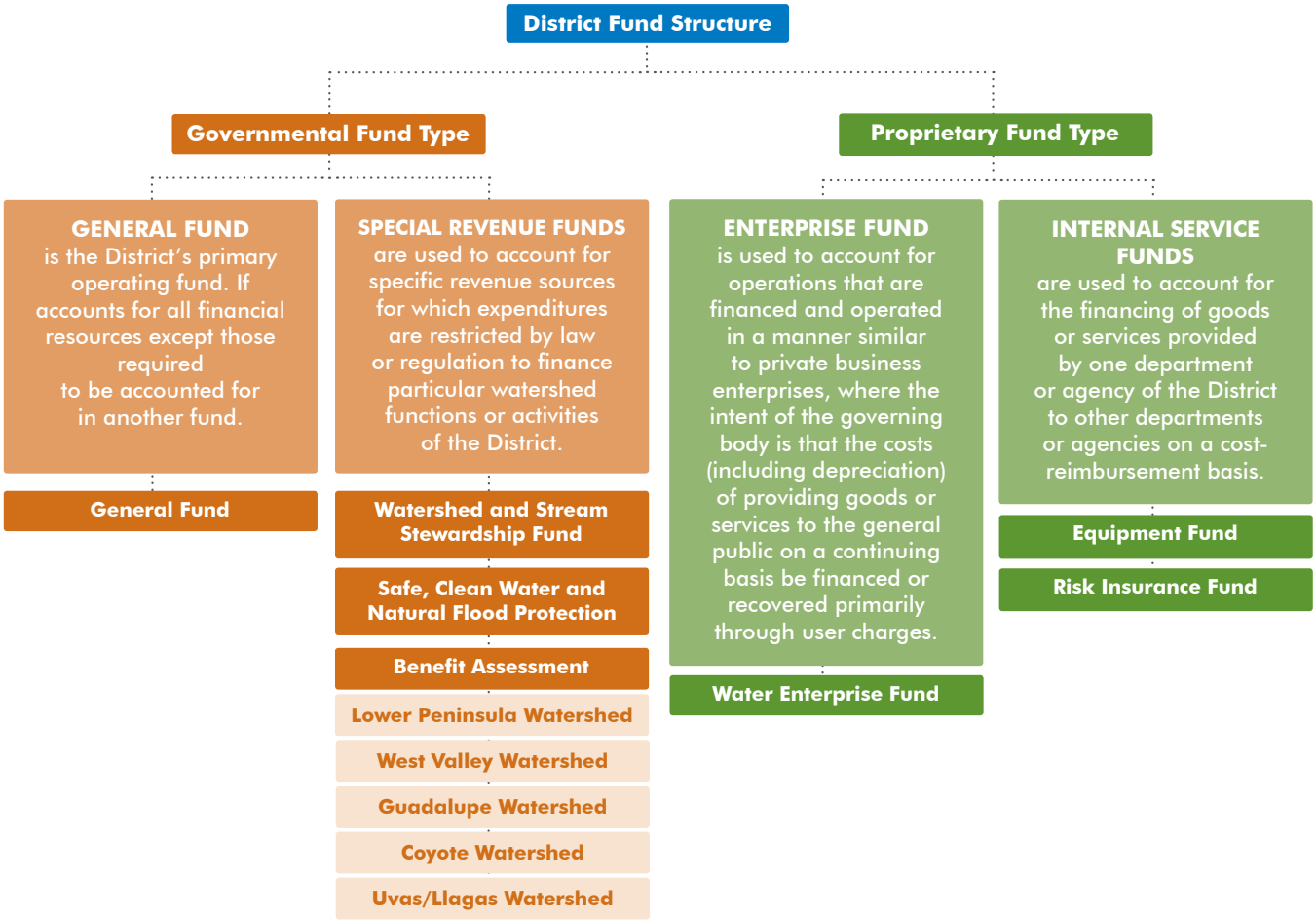
Capital reimbursement revenues are from local, state and federal partners for capital projects carried on cooperatively by the District and its partners. The District fronts the partners' shares of capital expenditures and receives reimbursements from the partners at a later time.

Interest

Interest is earned from the District's investment portfolio.

District Fund Structure

The District's revenue sources are organized into seven funds. Each fund has specific revenue sources according to their intended purposes, and each fund is an independent accounting entity with a self-balancing set of accounts comprised of its assets, liabilities, fund equity, revenue, and expenditures or expenses, as appropriate.



Revenue by Fund ($K)

FUND NAME	FY13 Budget	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23
Water Utility Enterprise	172,695	188,004	197,057	215,161	230,810	251,163	273,339	295,756	312,281	329,712	346,980
Watershed Stream Stewardship	61,316	67,722	65,291	52,748	53,783	54,998	56,637	57,812	58,493	59,676	60,851
Safe, Clean Water and Natural Flood Protection	41,482	46,522	47,854	82,132	53,910	48,758	45,773	51,165	50,427	55,947	52,050
Benefit Assessment	19,183	16,149	16,079	14,778	14,785	14,778	14,778	13,447	13,458	13,457	13,448
General	4,655	4,849	4,915	5,013	5,113	5,214	5,318	5,424	5,532	5,643	5,755
Internal Service	183	157	157	157	157	157	157	157	157	157	157
TOTAL	299,513	323,404	331,352	369,989	358,557	375,068	396,002	423,762	440,349	464,592	479,241

Note: Internal Service is the combination of the Equipment and Risk Funds

Revenue Projections

The District regularly updates the projected revenues based on the best information available.

- Revenues from water charges are estimated based on projections of water demand for residential, commercial and industrial, and agricultural consumption combined with rates per acre-foot. Rates are set at a level that will provide revenue needed to meet operating and capital needs.
- Revenues from property taxes, special parcel taxes, and benefit assessments are estimated based on projection of growth in assessed value and number of developed parcels in Santa Clara County.
- Interest earnings are estimated based on the projected average cash balances during the fiscal year and expected yield from the District's investment portfolio.
- Revenue from capital reimbursements partnerships are estimated based on the terms of agreements executed by the District and its partners.

Expenditure Projections

The District regularly updates the operation and capital expenditures based on the best information available.

Each capital project cost estimate includes the yearly expenditures through completion based on the project's scope and schedule. The expenditures are monitored regularly and updated when necessary, e.g. expenditures are updated when a project's scope changes. A management review process is enforced to ensure only justified expenditure changes are approved.

Operation cost projections for the next 10 years are updated annually and are based on assumptions derived from the District's strategic plans, including the impact of completed capital projects. Capital and operations expenditure projections are the foundation for the development of the District's budget.

Financial Analysis

The District regularly performs financial analysis to comply with the Board's Financial Planning/Budgeting Policy. The District uses sophisticated financial models to perform the analysis for each fund. The projected operation expenditures, capital expenditures, and revenues for the next ten years are incorporated into the financial models to analyze the health of each fund under various economic scenarios. This process assures that funds will be available when needed to implement the CIP.

The financial analysis generates alternatives for funding capital projects based on the available yearly revenues, from all sources, allocated to the capital program, and the debt financing capacity of each fund. The financial analysis establishes the parameters within which the capital project schedule is developed.

Debt Projections and Debt Ratios

Debt is managed at the District depending on the type of District business involved. The SCW program approved by the voters in 2012 includes the authority to issue debt against future revenue in order to accelerate completion of projects sooner. Debt service on outstanding benefit assessment debt is funded by benefit assessments levied on property owners in the county.

The water utility business on the other hand uses a combination of short-term and long-term debt financing in conjunction with pay-as-you-go financing to lessen impacts to the water rate, caused by fluctuations in capital funding needs. In the 1984 general election, Measure B was passed by the voters, which gave the District's water utility the authority to issue bonds on an "as required" basis. Debt service on outstanding debt is paid from water revenues. Bond covenants stipulate that the District must maintain a 1.25 debt coverage ratio on all parity bonds. The long-term financial analysis targets a debt coverage ratio of 2.0, which helps establish the parameters for capital planning that ensure bond covenants will be met.

The District currently enjoys credit ratings that are among the highest for a water-related governmental entity in the state of California, which helps keep interest costs borne by the District at a minimum.

Relationship between the Operating Budget and CIP

Whenever the District commits to capital improvements, there is a potential for associated long-range commitment of operating funds. For example, if 20-year bonds are issued to finance capital needs, then the operating funds will need to budget debt service payments for the next two decades. For this reason, it is important to evaluate capital commitments in the context of their long-range operating impact.

In addition to the long-range debt service payments, some capital projects affect future operating budgets either positively or negatively due to an increase or decrease in maintenance and operation costs. Such impacts vary widely from project to project and, are evaluated individually during the project development stage. The District is committing to a potential change in the operating budget when a capital project is approved.

The projected debt service payments and the positive or negative operating budget impacts are important factors considered in the District's financial analysis.

This chart identifies the operating budget impacts to each fund from projected debt service payments. The debt service payment in the Watershed Stream Stewardship Fund is a total of payments associated with each individual watershed.

Debt Payment Schedule ($K)

Fund	FY14	FY15	FY16	FY17	FY18
General Fund	628	623	533	533	533
Watershed Stream Stewardship Fund	13,270	13,213	12,160	12,168	12,162
Safe, Clean Water and Natural Flood Protection Fund	-	11,723	11,723	11,723	11,723
Water Utility Enterprise Fund	17,509	23,303	30,783	38,596	47,802
TOTAL	31,407	48,861	55,198	63,020	72,220

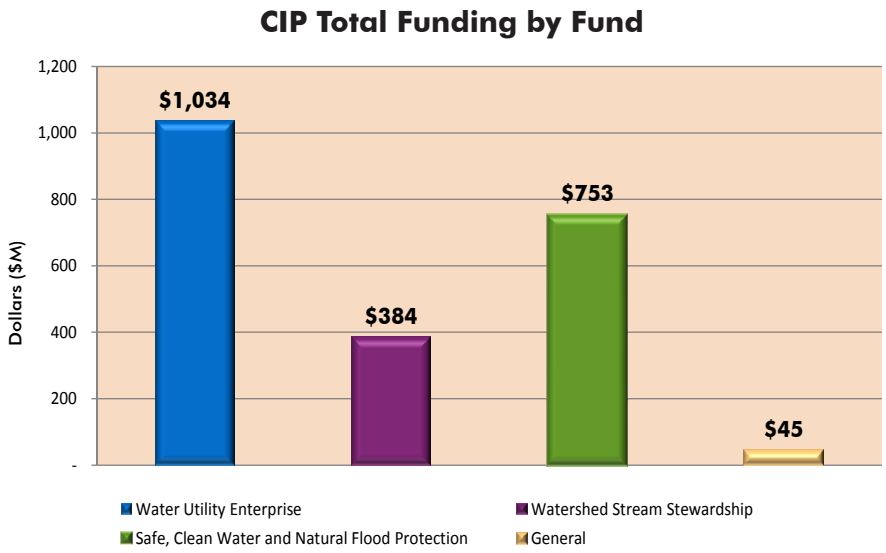
This chart identifies the net operating budget impacts to each fund resulting from annual maintenance and/or operating cost for newly completed capital projects. Additional information regarding operating impacts related to individual projects can be found on the project pages.

Estimated Operating Impacts ($K)

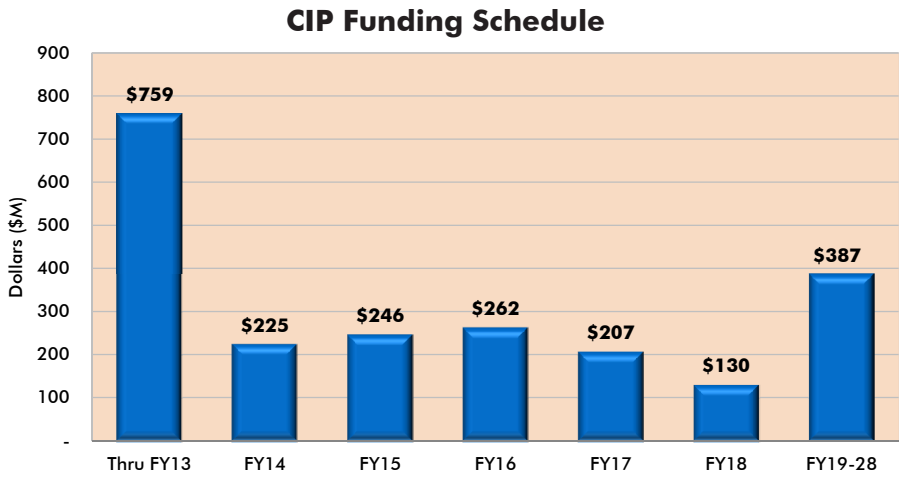
Fund	FY14	FY15	FY16	FY17	FY18	BEYOND
General Fund	-	-	-	-	-	164
Watershed Stream Stewardship Fund	50	530	545	545	580	580
Safe, Clean Water and Natural Flood Protection Fund	-	-	-	330	330	810
Water Utility Enterprise Fund	-	1,818	1,836	1,636	2,656	4,134
TOTAL	50	2,348	2,381	2,511	3,566	5,688

CIP FUNDING SUMMARY

Of the $2.216 billion in total District funding for current and future projects, the Board appropriated $759 million in prior years through June 30, 2013 (the end of Fiscal Year 2012/13). This year's CIP process identified additional funding needs of $1.457 billion to complete the projects in the CIP, with $225 million allocated in Fiscal Year 2013/14 and a total of $1.232 billion proposed for future years.



The needed $2.216 billion to implement the 63 projects as defined in the CIP are funded by four of the District's seven Funds.



The following chart shows the funding schedule for the $2.216 billion to implement the 63 projects.

CIP Project Funding Schedule for Water Utility Enterprise Fund ($K)

PROJECT NAME	Through FY12	FY13	FY13 Unspent	FY14	FY15	FY16	FY17	FY18	FY19-28	TOTAL
Almaden Dam Improvements	2,353	2,012	3	1,782	11,856	201	-	-	-	18,204
Anderson Dam Seismic Retrofit	9,474	1,007	979	12,620	15,272	70,248	70,987	1,217	380	181,205
Calero and Guadalupe Dams Seismic Retrofits	-	2,170	645	682	6,399	2,944	13,921	55,455	11,224	92,795
Dam Safety Program Seismic Stability	9,485	213	11	2,389	779	-	-	-	-	12,866
Pacheco Pumping Plant ASD Replacement	18,286	1,080	-	286	-	-	-	-	-	19,652
San Luis Reservoir Low Point Improvement	15,235	12	1,320	-	-	-	-	-	-	15,247
Small Capital Improvements, San Felipe Reach 1-3	n/a	1,639	-	4,659	737	830	5,528	608	2,457	16,458
Stevens Creek Dam Seismic Retrofit	-	400	-	1,605	8,009	506	-	-	-	10,520
TC HCP Implementation Fund	-	-	-	-	-	1,668	4,651	4,277	140,317	150,913
5-Year Pipeline Rehabilitation	-	4,133	-	2,826	8,551	3,935	4,846	-	-	24,291
Alamitos Diversion Dam Improvements	2,962	-	2,125	-	-	-	-	375	-	3,337
Coyote Diversion Dam Improvements	709	-	389	-	-	-	625	1,218	-	2,552
Kirk Diversion Dam & Fish Screen Improvements	3,196	-	56	395	-	-	-	-	-	3,591
Main & Madrone Pipelines Restoration	-	-	-	-	-	-	3,269	-	-	3,269
Pacheco/Santa Clara Conduit Right of Way Acquisitio	853	702	1	1,009	292	-	-	-	-	2,856
Penitencia Delivery Main/Force Main Seismic Retrofit	-	1,020	-	761	5,831	288	-	-	-	7,900
SCADA Remote Architecture & Communications Upgrade	-	-	-	370	389	795	758	776	2,918	6,006
Small Capital Improvements, Raw Water Transmission	n/a	719	-	43	381	199	-	129	169	1,640
Small Capital Improvements, Treated Water Transmission	n/a	998	-	-	56	-	-	-	95	1,149
Fluoridation at WTPs	-	-	-	357	782	5,073	684	-	-	6,896
Infrastructure Reliability	188	115	87	1,314	823	1,097	1,141	5,240	11,225	21,143
IRP2 WTP Ops Bldgs Seismic Retrofit	4,314	-	517	9,478	1,609	214	-	-	-	15,615
PWTP Clearwell Recoating & Repair	1,408	186	245	-	2,821	88	-	-	-	4,503
PWTP Water Pumps Modification	2,745	-	1,880	291	364	119	-	-	-	3,519
RWTP FRP Residuals Management Modifications	3,580	311	62	21,060	1,503	349	-	-	-	26,803
RWTP Reliability Improvement	2,777	8,406	387	7,923	50,659	54,639	54,687	16,868	152	196,111
RWTP Treated Water Valves Upgrade	1,128	700	145	5,972	873	163	-	-	-	8,836
Small Capital Improvements, Water Treatment	n/a	1,065	-	3,299	3,435	1,883	1,903	1,601	15,569	28,755

FY 2012/13 Funds to be reappropriated

CIP Project Funding Schedule for Water Utility Enterprise Fund ($K) (cont'd)

PROJECT NAME	Through FY12	FY13	FY13 Unspent	FY14	FY15	FY16	FY17	FY18	FY19-28	TOTAL
STWTP Incompatible Materials	9,398	3,330	-	1,183	163	-	-	-	-	14,074
Water Protection	7,730	1,940	407	175	-	-	-	-	-	9,845
Silicon Valley Advanced Water Purification Center	62,891	5,083	663	699	-	-	-	-	-	68,673
South County Recycled Water Pipeline	14,125	953	5,055	1,357	1,463	7,492	819	-	-	26,209
Jacques Gulch Restoration	5,593	35	133	-	-	-	-	-	-	5,628
Dam Maintenance Plan Mitigation	3,045	-	3,010	115	-	-	-	-	-	3,160
FAHCE Stevens Creek Fish Passage Enhancement	765	-	-	-	-	1,253	2,659	-	-	4,676
SCW Implementation Fund	-	-	-	-	577	600	624	649	8,102	10,552
Microwave Telecommunications System	4,441	-	940	22	-	-	-	-	-	4,463
TOTAL	186,681	38,229	19,060	82,672	123,624	154,584	167,102	88,413	192,608	1,033,913

FY 2012/13 Funds to be reappropriated

Project Funding Schedule for Watershed and Stream Stewardship Fund ($K)

PROJECT NAME	Through FY12	FY13	FY13 Unspent	FY14	FY15	FY16	FY17	FY18	FY19-28	TOTAL
Palo Alto Flood Basin Structure Improvements	-	-	-	343	779	4,438	23	-	-	5,583
Permanente Creek, SF Bay to Foothill Expressway	17,376	-	1	-	-	-	-	-	-	17,376
San Francisquito Creek, SF Bay thru Searsville Dam	4,918	-	51	-	-	-	-	-	-	4,918
San Francisquito Creek, Early Implementation	1,697	-	151	-	-	-	-	-	-	1,697
Calabazas Creek, UPRR Bridge Construction	1,760	-	1	-	-	-	-	-	-	1,760
Guadalupe River–Downtown, I-880 to I-280	104,804	-	6,174	-	-	-	-	-	-	104,804
Berryessa Creek, Lower Penitencia Ck to Calaveras Blvd	37,880	1,535	10	464	260	9,522	719	730	242	51,352
Lake Cunningham Improvements	333	552	116	2,175	4,175	-	-	-	-	7,235
Lower Penitencia Ck Capacity Restoration, Berryessa to Coyote Cks.	547	581	279	1,784	3,987	60	47	24	-	7,030
Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	86,029	634	1,248	104	108	168	-	-	-	87,043
Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps	8,970	-	271	-	-	-	-	-	-	8,970
Upper Penitencia Ck, Coyote Ck-Dorel Dr, LERRDs	8,464	-	1,500	80	-	-	-	-	-	8,544
Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	3,466	1,202	600	6,931	1,262	1,957	322	-	-	15,140
San Francisco Bay Shoreline	12,243	-	599	337	-	-	-	-	-	12,580
SMP Mitigation, Stream and Watershed Land Preservation	8,633	221	-	2,495	4,418	-	-	-	-	15,767
Alviso Slough	5,250	626	1,233	2,337	6,691	5,065	211	219	266	20,665
FAHCE Stevens Creek Fish Passage Enhancement	85	-	-	-	-	139	295	-	-	520
Gold Street Educational Center	2,605	34	-	76	-	-	-	-	-	2,715
SCW Implementation Fund	-	-	-	-	577	600	624	649	8,102	10,552
TOTAL	305,060	5,385	12,234	17,126	22,257	21,949	2,241	1,622	8,610	384,251

FY 2012/13 Funds to be reappropriated

Project Funding Schedule for Safe, Clean Water and Natural Flood Protection Fund ($K)

PROJECT NAME	Through FY12	FY13	FY13 Unspent	FY14	FY15	FY16	FY17	FY18	FY19-28	TOTAL
Anderson Dam Seismic Retrofit	-	-	-	-	-	-	-	-	72,755	72,755
IRP2 Additional Line Valves	-	-	-	-	-	-	-	-	12,900	12,900
Main & Madrone Pipelines Restoration	-	-	-	-	573	651	6,832	243	-	8,299
Permanente Creek, SF Bay to Foothill Expressway	17,041	-	1,342	19,074	865	315	-	-	-	37,295
San Francisquito Creek, SF Bay thru Searsville Dam	1,254	2,675	306	2,765	-	-	-	-	-	6,694
San Francisquito Creek - Construction, SF Bay to Middlefield Road	1,270	918	517	17,071	454	19,750	1,589	-	-	41,052
Calabazas Creek, Miller Avenue to Wardell Road	12,075	-	1,147	-	-	-	-	-	-	12,075
Sunnyvale East and West Channels	11,863	3,746	-	13,712	27,259	11,793	-	-	-	68,373
Guadalupe River–Upper, I-280 to Blossom Hill Road	112,183	-	29,351	-	13,227	16,863	15,004	7,548	22,207	187,032
Berryessa Creek, Calaveras Boulevard to Interstate 680	12,025	2,565	4,173	14,249	9,637	157	-	-	-	38,633
Coyote Creek, Montague Expressway to Interstate 280	15,258	738	5,450	14,990	3,028	377	-	-	-	34,391
Upper Penitencia Ck, Coyote Ck-Dorel Dr	-	-	-	-	1,181	1,228	1,399	11,957	37,943	53,708
Llagas Creek–Upper, Buena Vista Road to Wright Avenue	24,611	1,987	5	34,638	26,809	22,079	234	-	-	110,358
San Francisco Bay Shoreline - EIA 11 Design & Partial Construction	-	-	-	-	1,622	1,687	4,365	4,461	4,560	16,695
San Francisco Bay Shoreline - Other EIAs Planning	-	-	-	420	2,704	2,812	-	-	-	5,936
Lake Almaden, Guadalupe Rv, Los Alamitos Ck Restoration	316	499	451	-	697	562	-	-	-	2,074
South Bay Salt Ponds Restoration	-	-	-	188	903	1,360	2,243	-	-	4,694
SCW Implementation Fund	-	-	-	-	577	2,625	2,467	12,734	21,580	39,983
TOTAL	207,896	13,128	42,742	117,107	89,536	82,259	34,133	36,943	171,945	752,947

FY 2012/13 Funds to be reappropriated

Project Funding Schedule for General Fund ($K)

PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
Almaden and Winfield Campus, Small Capital Improvements	n/a	2,510	-	2,080	2,163	2,250	2,340	2,433	13,707	27,483
Winfield Capital Improvements	-	190	-	1,560	7,738	534	-	-	-	10,022
PeopleSoft System Upgrade & Expansion	-	-	-	4,099	1,066	806	732	302	-	7,005
TOTAL	-	2,700	-	7,739	10,967	3,590	3,072	2,735	13,707	44,510

FY 2012/13 Funds to be reappropriated

CIP Funding Schedule Summary for All Funds ($K)

FUND NAME	Through FY12	FY13	FY13 Unspent	FY14	FY15	FY16	FY17	FY18	FY19-28	TOTAL
Water Utility Enterprise	186,681	38,229	**19,060**	82,672	123,624	154,584	167,102	88,413	192,608	1,033,913
Watershed Stream Stewardship	305,060	5,385	**12,234**	17,126	22,257	21,949	2,241	1,622	8,610	384,251
Safe, Clean Water and Natural Flood Protection	207,896	13,128	**42,742**	117,107	89,536	82,259	34,133	36,943	171,945	752,947
General	-	2,700	**0**	7,739	10,967	3,590	3,072	2,735	13,707	44,510
TOTAL	699,637	59,442	**74,036**	224,644	246,384	262,382	206,548	129,713	386,871	2,215,621

FY 2012/13 Funds to be reappropriated

WATER SUPPLY CAPITAL PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = **0**

Project Name Here

RAW SCORE = 0

PRIMARY OBJECTIVE (75%)

Water Supply (E 2) Impact = ; Probability = 0.00

A ☐ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements. **(H+, H-, M+, M-, L)**

B ☐ Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. **(H, M, L)**

C ☐ Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. **(I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))**

SOCIAL FACTORS (7.5%)

Social Factor - Check if applicable 0.00

☐ Promotes Emergency Recovery

Positive Interaction (E 4) - Check all that apply

☐ With the Community ☐ With other agencies

ENVIRONMENTAL FACTORS (7.5%)

Water Quality (E 3.2) - Check if applicable 0.00

☐ Promotes drinking water quality

Natural Resources Sustainability (E 3.2) - Check all that apply

☐ Promotes water use efficiency ☐ Promotes energy efficiency or incorporates energy efficient features

☐ Promotes stream management

ECONOMIC FACTORS (10%)

Lifecycle costs are minimized - Check One 0.00

☐ Annual cost savings of more than $250,000

☐ Annual cost savings of $50,000 to $250,000

☐ Annual cost savings of less than $50,000 (reference ½ PY)

Funding Available from Other Agencies - Check One

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

FLOOD PROTECTION PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = 0

Project Name Here

RAW SCORE = 0

PRIMARY OBJECTIVE (60%)

Flood Protection (E 3) Impact = ; Probability = 0.00

A ☐ Project restores existing watershed infrastructure to its intended level of flood protection.

B Project balances environmental quality and protection from flooding in a cost effective manner.

Average annual flood damages (13.5 pts.)		$K
Size of developed area (2 pts.)		Acres
Upstream and downstream improvements (1.3 pts.)		Y/N
Rehabilitated reach (1.8 pts.)		Y/N
Proposed development (1 pt.)		Acres
Downstream reach (1.3 pts.)		Y/N
Maintenance cost (1.4 pts.)		per Mile
Multipurpose use (1.5 pts.)		Miles
Flood insurance costs (1.6 pts.)		$
Historical flood areas (1.6 pts.)		Acres

SOCIAL FACTORS (10%)

Positive Interaction (E 4) - Check all that apply 0.00

☐ With the Community ☐ With other agencies

Good Neighbor (E 4) - Check all that apply

☐ Graffiti removal or Prevention Features

☐ Trash removal features (vortex weirs)

☐ Improves esthetics of project location

ENVIRONMENTAL FACTORS (15%)

Ecological Function (E 3.2) - Check all that apply 0.00

☐ Fish Barrier Removal / Structural improvement to fish habitat ☐ Upland Habitat Protection/Preservation

☐ Riparian Habitat (planting, setback or protect in place) ☐ Wetland Habitat Protection/Preservation

☐ SRA Plantings or Improved water temperature ☐ Hardscape Reduction

Water Quality (E 3.2) - Check all that apply

☐ Storm Water Treatment ☐ Provides opportunity for recharge

☐ TMDL Improvements

Trails & Open Space (E3.3) - Check all that apply

☐ Trail friendly features ☐ Open Space Protection / Preservation

☐ Provides/Improves Bicycle Commute Route

ECONOMIC FACTORS (15%)

Funding Available from Other Agencies - Check One 0.00

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

WATER RESOURCES STEWARDSHIP PROJECTS

Priority Ranking Criteria for Commitments and Environmental Enhancement Projects

PRIORITY SCORE = 0

Project Name Here

RAW SCORE = 0

PROJECT OBJECTIVES	**Water Resources Stewardship (E 4)** - Mark One	0.00
	Proposed project supports watershed stewardship and includes 1 of 5 objectives: 1 - creation or restoration of tidal or riparian habitat 2 - improvement of endangered species habitat 3 - fish barrier removal/fish ladder installation 4 - removal of invasive species 5 - planting of native species.	
	☐ **HIGH** - Project supports more than 1 identified objective	15
	☐ **MEDIUM** - Project supports 1 of 5 identified objectives	10
	☐ **LOW** - Project does not support 1 of 5 identified objectives	7
ENVIRONMENTAL DESIRABILITY	Proposed project is appropriate for the area/habitat in which it is planned (based on some evidence provided). - Mark One	0.00
	☐ **HIGH** - Project demonstrates connectivity to adjacent habitats and bsaseline information is available to support selection of project location.	15
	☐ **MEDIUM** -	10
	☐ **LOW** - Project is a stand-alone project with no relation to adjacent habitat or baseline evidence that supports appropriateness of location for project.	5
CRITICAL NEED	Project fulfills a critical need as described by existing documents, plans, and reports on watershed stewardship in Santa Clara County. - Mark One	0.00
	☐ **HIGH** - Project fulfills a critical need	15
	☐ **MEDIUM** -	10
	☐ **LOW** - Project does not fulfill a critical need	5
GEOGRAPHIC DISTRIBUTION	Project provides planning for enhancements in an area where a lack of environmental enhancements can be demonstrated. - Mark One	0.00
	☐ **HIGH** - Project demonstrates that the project location is in need of enhancements due to lack of existing enhancements.	15
	☐ **MEDIUM** -	10
	☐ **LOW** - Project does not demonstrates that the project location is in need of enhancements due to lack of existing enhancements.	5
LIKELIHOOD OF PROJECT SUCCESS	Maintenance and monitoring copmponent identified for environmental enhancement activity. - Mark One	0.00
	☐ **HIGH** - Project includes specific details for the maintenance and monitoring component of the environmental enhancement activity.	15
	☐ **MEDIUM** - Project includes recognition that a maintenance and monitoring component is necessary for successful completion of the environmental enhancement activity.	10
	☐ **LOW** - Project does not include a maintenance and monitoring component for the environmental enhancement activitie(s)	5
COST EFFECTIVENESS	Cost to the District as a percentage of the total estimated enhancement planning project cost. - Mark One	0.00
	☐ **HIGH** - Project provides > 50% cost share (i.e., less District funding required)	15
	☐ **MEDIUM** - Project provides between 25% and 50% cost share	7
	☐ **LOW** - Project provides at least 25% cost share (i.e., more District funding required)	5
COMMUNITY INVOLVEMENT	Proposed project includes plans for outreach to the community. - Mark One	0.00
	☐ **HIGH** - Project includes a community outreach component	10
	☐ **MEDIUM** -	7
	☐ **LOW** - Project does not include a community outreach component.	5

WATER RESOURCES STEWARDSHIP PROJECTS

Priority Ranking Criteria for Stewardship Projects

PRIORITY SCORE = **0**

Project Name Here

RAW SCORE = 0

PRIMARY OBJECTIVE (60%)

Stewardship Projects Impact = ; Probability = 0.00

A ☐ Project restores a previously constructed environmental enhancement so that it can continue to provide the benefits for which it was created.

B ☐ Project creates Stewardship features to achieve stewardship commitments.

C ☐ Stewardship activities beyond the current commitment.

SOCIAL FACTORS (10%)

Positive Interaction (E 4) - Check all that apply 0.00

☐ With the Community

☐ With other agencies

Good Neighbor (E 4) - Check all that apply

☐ Graffiti removal or Prevention Features

☐ Trash removal features (vortex weirs)

☐ Improves esthetics of project location

ENVIRONMENTAL FACTORS (15%)

Ecological Function (E 3.2) - Check all that apply 0.00

☐ Fish Barrier Removal / Structural improvement to fish habitat

☐ Riparian Habitat (planting, setback or protect in place)

☐ SRA Plantings or Improved water temperature

☐ Upland Habitat Protection/Preservation

☐ Wetland Habitat Protection/Preservation

☐ Hardscape Reduction

Physical Stream Function (E 3.2) - Check all that apply

☐ Holistic Watershed Approach

☐ Geomorphologic Design Elements

☐ Erosion Control

☐ Sediment Source Reduction

Water Quality (E 3.2) - Check all that apply

☐ Storm Water Treatment (pervious pavement, green roofs, etc.)

☐ TMDL Improvements

☐ Hazardous Material Removal (Asbestos, Lead, Hydrocarbons, etc.)

Trails & Open Space (E3.3) - Check all that apply

☐ Trail friendly features

☐ Provides/Improves Bicycle Commute Route

☐ Open Space Protection / Preservation

ECONOMIC FACTORS (15%)

Lifecycle costs are minimized - Check One 0.00

☐ Annual cost savings of more than $250,000

☐ Annual cost savings of $50,000 to $250,000

☐ Annual cost savings of less than $50,000 (reference ½ PY)

Funding Available from Other Agencies - Check One

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

BUILDING & GROUNDS PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = 0

Project Name Here

RAW SCORE = 0

PRIMARY OBJECTIVE (60%)

Buildings and Grounds (EL 3.4) Impact = ; Probability = 0.00

A ☐ Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards.

B ☐ Project enhances building infrastructure to address treatment of staff issues.

C ☐ Project positions the District to meet projected future space needs.

CLEANER OBJECTIVE (10%)

Positive Interaction (E 4) - Check all that apply 0.00

☐ With the Community

☐ With other agencies

Good Neighbor (E 4) - Check all that apply

☐ Graffiti removal or Prevention Features

☐ Trash removal features (vortex weirs)

☐ Improves esthetics of project location

GREENER OBJECTIVE (15%)

Natural Resources Sustainability (E 3.2) - Check all that apply 0.00

☐ Air Quality & Visibility Improvement

☐ Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)

☐ Renewable Energy Use

☐ Water Efficient Features: Plumbing fixtures, Landscaping, etc.

☐ Recycled Water, rain water or gray water utilized

☐ Construction Site Waste Management

☐ Recycle/Re-use Solid Waste

☐ Reduce Solid Waste Production

☐ Use of Recycled or Alternative Building Materials

Trails & Open Space (E3.3) - Check all that apply

☐ Trail friendly features

☐ Provides/Improves Bicycle Commute Route

☐ Open Space Protection / Preservation

LEANER OBJECTIVE (15%)

Lifecycle costs are minimized - Check One 0.00

☐ Annual cost savings of more than $250,000

☐ Annual cost savings of $50,000 to $250,000

☐ Annual cost savings of less than $50,000 (reference ½ PY)

Funding Available from Other Agencies - Check One

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

INFORMATION TECHNOLOGY PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = 0

Project Name Here

SCORE = 0

PRIMARY OBJECTIVE (60%)

Information Technology (EL 7.5) Impact = ; Probability = 0.00

A ☐ Project maintains existing mission critical software systems and/or IT infrastructure to improve reliability for business continuity.

B ☐ Project enhances mission critical software systems and/or IT infrastructure to improve user functionality.

C ☐ Project enhances mission critical software systems and/or IT infrastructure to meet projected future needs.

SOCIAL FACTORS (10%)

Positive Interaction (E 4) - Check all that apply 0.00

☐ With the Community

☐ With other agencies

Good Neighbor (E 4) - Check all that apply

☐ Graffiti removal or Prevention Features

☐ Trash removal features (vortex weirs)

☐ Improves esthetics of project location

ENVIRONMENTAL FACTORS (15%)

Natural Resources Sustainability (E 3.2) - Check all that apply 0.00

☐ Air Quality & Visibility Improvement

☐ Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)

☐ Renewable Energy Use

☐ Water Efficient Features: Plumbing fixtures, Landscaping, etc.

☐ Recycled Water, rain water or gray water utilized

☐ Construction Site Waste Management

☐ Recycle/Re-use Solid Waste

☐ Reduce Solid Waste Production

☐ Use of Recycled or Alternative Building Materials

ECONOMIC FACTORS (15%)

Lifecycle costs are minimized - Check One 0.00

☐ Annual cost savings of more than $250,000

☐ Annual cost savings of $50,000 to $250,000

☐ Annual cost savings of less than $50,000 (reference ½ PY)

Funding Available from Other Agencies - Check One

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

Water Supply Capital Projects in Order of Priority

FUNDED

Priority	Name
100	Dam Safety Program Seismic Stability
97	Anderson Dam Seismic Retrofit
92	Calero and Guadalupe Dams Seismic Retrofits
87	RWTP FRP Residuals Management Modifications
87	RWTP Treated Water Valves Upgrade
84	Penitencia Delivery Main/Force Main Seismic Retrofit
80	Pacheco Pumping Plant ASD Replacement
76	Stevens Creek Dam Seismic Retrofit
75	PWTP Water Pumps Modification
72	Alamitos Diversion Dam Improvements
72	Coyote Diversion Dam Improvements
72	Kirk Diversion Dam & Fish Screen Improvements
72	Small Capital Improvements, Raw Water Transmission
70	IRP2 WTP Ops Bldgs Seismic Retrofit
70	Main & Madrone Pipelines Restoration
68	PWTP Clearwell Recoating & Repair
67	Small Capital Improvements, Water Treatment
66	Small Capital Improvements, San Felipe Reach 1-3
66	STWTP Incompatible Materials
65	Small Capital Improvements, Treated Water Transmission
63	TC HCP Implementation Fund
60	Pacheco/Santa Clara Conduit Right of Way Acquisition
56	5-Year Pipeline Rehabilitation
53	San Luis Reservoir Low Point Improvement
51	Fluoridation at WTPs
48	SCADA Remote Architecture & Communications Upgrade
46	RWTP Reliability Improvement
40	Almaden Dam Improvements
40	IRP2 Additional Line Valves
34	Water Protection
30	Infrastructure Reliability
17	Silicon Valley Advanced Water Purification Center
16	South County Recycled Water Pipeline

Water Supply Capital Projects in Order of Priority (cont'd)

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

Priority	Name
100	Dam Seismic Stability at 2 Dams (Chesboro, Uvas)
66	SCADA Small Capital Improvements
63	Santa Clara Tunnel Leakage and Pacheco Conduit Dewater
44	San Luis Reservoir Low Point Improvement - Design and Construction
17	Recycled Water Full Scale Implementation

Flood Protection Capital Projects in Order of Priority

FUNDED

Priority	Name
94	Permanente Creek, SF Bay to Foothill Expressway
93	Palo Alto Flood Basin Structure Improvements
81	Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River
80	Sunnyvale East and West Channels
79	San Francisquito Creek, SF Bay thru Searsville Dam
77	Guadalupe River–Downtown, I-880 to I-280
77	Guadalupe River–Upper, I-280 to Blossom Hill Road
67	Berryessa Creek, Lower Penitencia Ck to Calaveras Blvd
66	Llagas Creek–Upper, Buena Vista Road to Wright Avenue
59	Coyote Creek, Montague Expressway to Interstate 280
58	Upper Penitencia Creek, Coyote Creek to Dorel Drive
56	Lower Silver Creek, I-680 to Cunningham (Reach 4-6)
54	Lake Cunningham Improvements
54	Lower Penitencia Ck Capacity Restoration, Berryessa to Coyote Cks.
53	Berryessa Creek, Calaveras Boulevard to Interstate 680
42	Calabazas Creek, Miller Avenue to Wardell Road
32	San Francisco Bay Shoreline

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

32	SF Bay Shoreline Other EIAs Planning

Water Resources Stewardship Capital Projects in Order of Priority

FUNDED

Priority	Name
	Mitigation (All Mitigation projects are required per CEQA or other Regulation and therefore do not receive a score)
	Dam Maintenance Plan Mitigation
	SMP Mitigation, Stream and Watershed Land Preservation
	Environmental Commitment
85	Jacques Gulch Restoration
	Environmental Enhancement
57	South Bay Salt Ponds Restoration
35	Lk Almaden/Guad Riv/Alamitos Ck Restoration
	Stewardship
65	FAHCE Stevens Creek Fish Passage Enhancement
40	SCW Implementation Fund
24	Alviso Slough Restoration
8	Gold Street Educational Center

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

35	Lk Almaden/Guad Riv/Alamitos Ck Restoration - Construction

Buildings and Grounds Capital Projects in Order of Priority

FUNDED

Priority	Name
73	Almaden and Winfield Campus, Small Capital Improvements
70	Winfield Capital Improvements

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

70	Fleet and Facility Annex Improvements
39	Maintenance Office Upgrade/Replacement

Information Technology Capital Projects in Order of Priority

FUNDED

31	PeopleSoft System Upgrade & Expansion
30	Microwave Telecommunications System

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

N/A	None

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Appendix C - District Partnership Summary

Partnership Reimbursements are funds that are reimbursed by the District's partners after the District advances the needed funds. The following table identifies capital projects that are funded cooperatively with the District's partners through reimbursements.

Partnership Reimbursement

Reimbursements for Current Projects			Actuals												
Project Number	Project Name	Agency	Thru FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	Total
91954001	Pacheco Pumping Plant ASD Replacement	Total	3,187	800	90	0	0	0	0	0	0	0	0	0	4,077
		San Benito Water Dist	3,187	800	90										4,077
91214007	San Luis Reservoir Low Point Improvement	Total	11,350	150	0	0	0	0	0	0	0	0	0	0	11,500
		DWR - Prop 13	11,304	150											11,454
		USBR	46												46
91214010	Small Capital Improvements, San Felipe - Reach 1	Total	504	140	340	675	0	0	30	134	217	0	0	24	2,064
		San Benito Water Dist	504	140	340	675	0	0	30	134	217	0	0	24	2,064
95084001	5-Year Pipeline Rehabilitation	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
		San Benito Water Dist	0												0
92374005	SCADA Remote Architecture & Comm. Upg	Total	0	0	0	0	0	0	0	0	0	0	0	0	0
		San Benito Water Dist	0												0
92144001	Pacheco/Santa Clara Conduit Right of Way Acquisition	Total	17	2	0	0	0	0	0	0	0	0	0	0	19
		San Benito Water Dist	17	2											19
93084011	Fluoridation at WTPs	Total	0	0	0	0	2,400	0	0	0	0	0	0	0	2,400
		The Health Trust	0				1,000								1,000
		First 5 of Santa Clara County	0				900								900
		California Dental Association Foundation					500								500
94084005	Water Protection	Total	0	0	29	4	4	4	0	0	0	0	0	0	41
		San Benito Water Dist	0		29	4	4	4							41
91184008	Silicon Valley Advanced Water Purification Center	Total	16,625	2,935	2,485	0	0	0	0	0	0	0	0	0	22,045
		City of San Jose	8,500												8,500
		DWR - Prop 50	0	2,935											2,935
		DWR - Prop 84	0		2,485										2,485
		USBR - ARRA	8,125												8,125
91094007s	South County Recycled Water Pipeline	Total	2,106	0	0	0	0	0	0	0	0	0	0	0	2,106
		SCRWA	811												811
		USBR - ARRA	1,295												1,295
10284007s	San Francisquito Creek, SF Bay to Searsville Dam	Total	0	0	4,000	4,000	0	0	0	0	0	0	0	0	8,000
		San Francisquito Joint Powers Authority (DWR)	0		4,000	4,000									8,000
26104001s	Calabazas Creek, Miller Ave to Wardell Rd	Total	0	0	64	0	0	0	0	0	0	0	0	0	64
		City of Saratoga	0		64										64
30154013s	Guadalupe River–DT, I-880 to I-280	Total	38,942	0	1,378	485	0	0	0	0	0	0	0	0	40,805
		State Subventions	27,080		1,378	485									28,943
		City of San Jose	1,654												1,654
		San Jose Redev Agency	10,208												10,208
26154001s	Guadalupe River–Upper, I-280 to Blossom Hill Rd	Total	10,426	3,500	5,600	5,600	5,600	5,600	3,332	508	4,536	2,268	5,889	0	52,859
		State Subventions	6,641	3,500	5,600	5,600	5,600	5,600	3,332	508	4,536	2,268	5,889		49,074
		City of San Jose	3,785												3,785
26174041s	Berryessa Ck, Calaveras Bvd to Interstate 680	Total	0	0	0	0	5,887	5,670	1,284	0	0	0	0	0	12,841
		State Subventions	0				5,887	5,670	1,284						12,841
40264008s	Lower Silver Ck, 680 to Cunningham, Reimb (R4-6)	Total	13,117	9,722	17,500	12,500	0	0	0	0	0	0	0	0	52,839
		State Subventions	2,629		2,500	2,500									7,629
		State Bond - DWR			15,000	10,000									25,000
		NRCS-ARRA	10,488	9,722											20,210
50284010	Llagas Creek–Lower, Capacity Restoration, Buena Vist	Total	120	0	0	0	0	0	0	0	0	0	0	0	120
		DWR	120												120
26174051s	Llagas Creek–Upr, Buena Vista Rd to Wright Ave	Total	4,076	1,000	2,430	2,565	29,381	24	0	0	0	0	0	0	39,476
		State Subventions	2,537		1,969	2,565	29,381	24							36,476
		City of Morgan Hill	1,539	1,000	461										3,000
00044026s	San Francisco Bay Shoreline	Total	0	0	420	0	0	0	0	0	0	0	0	0	420
		State Bond - DWR	0		420										420
91854002	Jacques Gulch Restoration	Total	362	0	0	0	0	0	0	0	0	0	0	0	362
		Santa Clara County	362												362
94084006	Microwave Telecommunications System	Total	30	142	0	0	0	0	0	0	0	0	0	0	172
		San Benito Water Dist	30	142											172
		SUBTOTAL - Reimbursements from Current Projects	100,862	18,391	34,336	25,829	43,272	11,298	4,646	642	4,753	2,268	5,889	24	252,210

Partnership Reimbursement (cont'd)

Reimbursements for Current Projects		Actuals												
Pending Reimbursements for Closed Projects	Agency	Thru FY11	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	Total
40214001 Lower Coyote Creek	Total	35	1	0	0	0	0	0	0	0	0	0	0	36
	US Army Corp of Engineers	35	1											36
SUBTOTAL - Reimbursements for Closed Projects		35	1	0	0	0	0	0	0	0	0	0	0	36
TOTAL REIMBURSEMENTS		100,897	18,392	34,336	25,829	43,272	11,298	4,646	642	4,753	2,268	5,889	24	252,246

Appendix C - District Partnership Summary

Partnership Funding is funds that are made available by the District's partners, when needed. The following table identifies capital projects that receive partnership funding. This may occur through either cost sharing agreements or as in-kind services.

Partnership Funding

Project Number	Project Name	Amount ($K)	Partnering Agency
26174041s	Berryessa Creek, Calaveras Boulevard to Interstate 680	25,000	U.S. Army Corps of Engineers
30154013s	Guadalupe River–Downtown, Interstate 880 to Interstate 280	170,500	U.S. Army Corps of Engineers (includes $12.5M ARRA Stimulus)
26154001s	Guadalupe River–Upper, Interstate 280 to Blossom Hill Road	136,571	U.S. Army Corps of Engineers
91854002	Jacques Gulch Restoration	4,000	County of Santa Clara
26174051s	Llagas Creek–Upper, Buena Vista Road to Wright Avenue	65,000	U.S. Army Corps of Engineers
00044026s	San Francisco Bay Shoreline	91,250	Primarily Corps, Coastal Conservancy, Fish & Wildlife, Wildlife Conservation
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	3,000	U.S. Army Corps of Engineers
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	1,500	County of San Mateo
91214007	San Luis Reservoir Low Point Improvement	8,000	U.S. Bureau of Reclamation
	TOTAL	$ 504,821	

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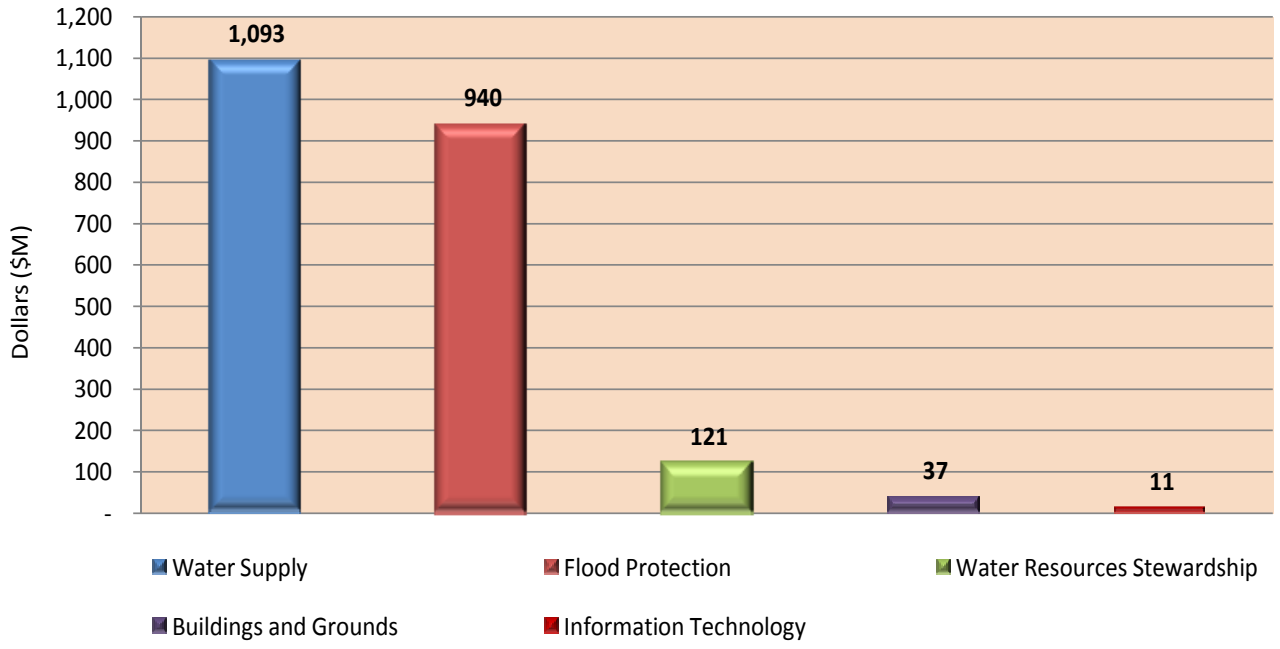
Appendix D - Summary of Capital Expenditures

Expenditure Schedule by Type of Improvement ($K)

	THRU FY12 (Actuals)	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24-28	TOTAL
Water Supply	143,389	52,475	88,653	123,639	153,846	171,799	88,905	37,662	26,179	22,307	96,533	1,825	85,655	1,092,867
Flood Protection	390,703	68,983	166,441	106,079	94,103	23,702	24,720	28,528	22,865	5,409	4,494	3,656	-	939,683
Water Resources Stewardship	19,714	3,166	9,859	14,603	12,204	9,123	14,251	9,505	8,369	2,190	2,277	2,368	13,342	120,971
Buildings and Grounds	-	2,640	3,640	9,901	2,784	2,340	2,433	2,531	2,632	2,737	2,847	2,960	-	37,445
Information Technology	3,451	50	5,061	1,066	806	732	302	-	-	-	-	-	-	11,468
TOTAL	557,257	127,314	273,654	255,288	263,743	207,696	130,611	78,226	60,045	32,643	106,151	10,809	98,997	2,202,434

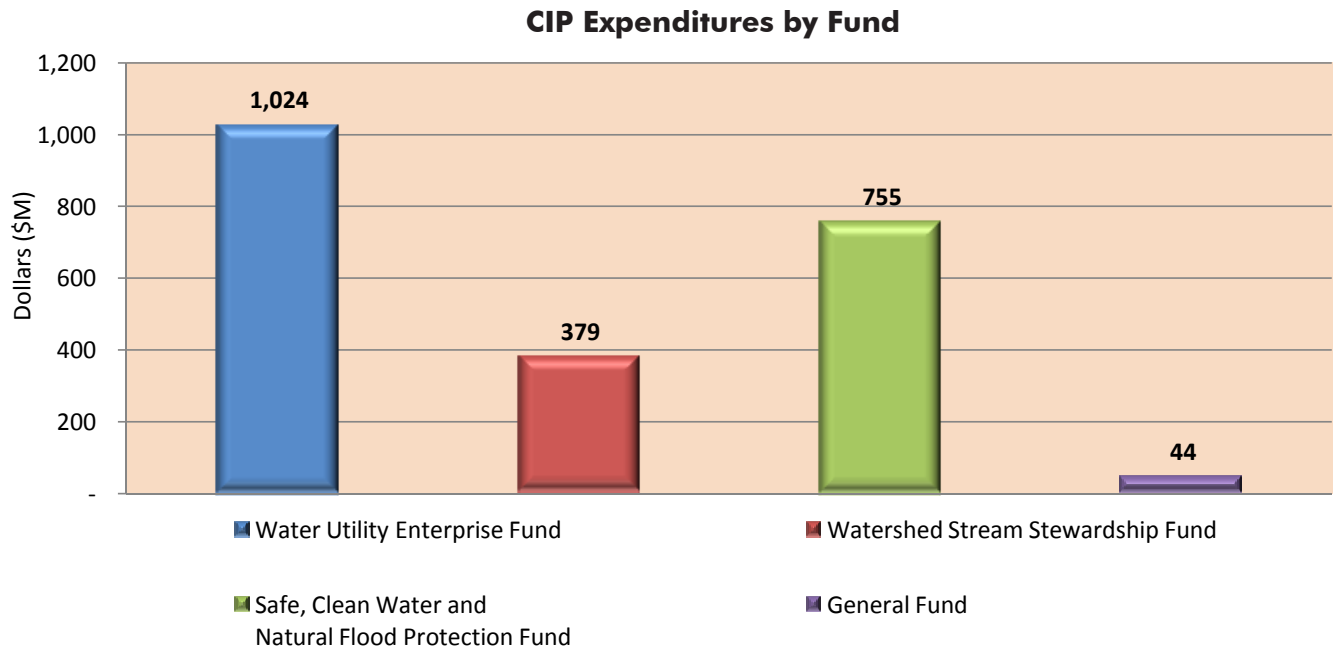
CIP Expenditures by Type of Improvement



Appendix D - Summary of Capital Expenditures

Expenditure Schedule by Fund ($K)

	THRU FY12 (Actuals)	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24-28	TOTAL
Water Utility Enterprise Fund	152,982	52,678	92,773	123,727	155,048	164,981	89,311	38,337	26,881	23,037	97,292	2,614	4,447	1,024,108
Watershed Stream Stewardship Fund	262,642	35,347	23,897	22,257	21,949	2,241	1,622	998	761	792	823	789	4,447	378,566
Safe, Clean Water and Natural Flood Protection Fund	141,633	36,649	149,245	98,337	83,156	37,402	36,943	36,360	29,772	6,077	5,189	4,445	90,102	755,310
General Fund	-	2,640	7,739	10,967	3,590	3,072	2,735	2,531	2,632	2,737	2,847	2,960	-	44,450
TOTAL	557,257	127,314	273,654	255,288	263,743	207,696	130,611	78,226	60,045	32,643	106,151	10,809	98,997	2,202,434



Appendix E - Glossary

Ad Valorem Tax
A tax based on value (e.g., a property tax).

Appropriation
An appropriation is a legal authorization granted by the Santa Clara County Board of Supervisors which allows the District to expend cash and incur obligations for specific purposes. An appropriation is usually limited in amount and the time it may be expended.

Assessment
The process of setting the official valuation of property for taxation; the valuation placed upon property as a result of this process.

Asset
A probable future economic benefit obtained or controlled by a particular entity as a result of past transactions or events. Examples of assets are cash, receivables, and equipment.

Benefit Assessment
Determination of the benefits derived from District activities within particular watersheds and levying a proportionate share of taxes to each parcel subject to voter-approved limitations.

Bonds
Bonds are a long-term source of debt that provides a source of borrowed monies that can be used to pay for specific capital facilities. Bonds are a written promise to pay a specified sum of money at a predetermined date or dates in the future, called the maturity date(s), together with periodic interest at a specific rate.

Capital Expenditure
Capital expenditures fall into several categories. In general, they should create assets or extend the useful lives of existing assets. The work product results in a long-term benefit greater than two years and for budgeting purposes involved a major expenditure of district resources greater than $50,000. They can be made with regard to tangible and intangible assets. The general categories of capital expenditures are: rehabilitation, major repairs, improvements/ betterments/ upgrades, replacements, expansions/ additions, and ancillary expenditures.

Capital Projects
Projects are budgeted within the Capital budget and fall within the definition of Capital Expenditures; which means they (1) create or extend the life of an asset, (2) their work products have a useful life of greater than two years, and (3) they involve an expenditure of District resources in excess of $50,000.

Certificates of Participation (COPs)
A security in the general form of a bond, which evidences a proportionate participation in a flow of lease or other payments between two parties.

CEQA
California Environmental Quality Act

CIP
Capital Improvement Plan

Cost Center
Cost Centers are separate financial accounting centers in which costs are accumulated because of legal and accounting requirements, the first two digits of a project number identifies the cost center.

DWR
State Department of Water Resources

EIR
Environmental Impact Report

Encumbrances
Commitments related to unperformed (executory) contracts for goods or services. Encumbrances represent the estimated amount of expenditures that will result if unperformed contracts in process are completed.

Appendix E - Glossary

Enterprise Fund
Enterprise Funds are used to account for operations including debt service (a) that are financed and operated in a manner similar to private business, where the intent of the government body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a accounting basis is financed or recovered primarily though user charges; or (b) where the governing body has determined that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance, public policy, management control accountability, or other purposes.

Expenditure/Expense
Decreases in net financial resources. Expenditures include current operating expenses requiring the present or future of net current assets, debt service and capital outlays, and intergovernmental grants, entitlements, and shared revenues. The major expenditure categories used by the District are labor and overhead, land and structures, equipment, and debt service.

Facility
Defined as a creek, reservoir, dam, water treatment plant, pipeline, canal, etc.

Fixed Assets
Fixed Assets are defined as long-lived tangible assets such as automobiles, computers and software, furniture, communications equipment, hydrologic equipment, office equipment, and other equipment, with a value of $2,000 or more, or the combined value of like or related units (aggregate value) is greater than $5,000 if the unit value is less than $2,000.

Fiscal Year
A 12-month period to which the annual operating budget applies and at the end of which a government determines its financial position and the results of its operations. The District's fiscal year is July 1 through June 30.

Fund
A fiscal and accounting entity with a self-balancing set of accounts in which cash and other financial resources, all related liabilities and residual equities, or balances, and changes therein, are recorded and segregated to carry on specific activities or attain certain objectives in accordance with special regulations, restrictions or limitations.

General Fund
A fund used to account for major operating revenues and expenditures, except for those financial transactions that are required to be accounted for in another fund. General Fund revenues are derived primarily from property and other taxes.

Grants
Contributions or gifts of cash or other assets from another government entity to be used or expended for a specified purpose, activity, or facility.

Levy
(1. Verb) To impose taxes, special assessments, or service charges for the support of government activities; (2. Noun) The total amount of taxes, special assessments, or service charges imposed by a government agency.

Long-Term Debt
Debt with a maturity date of more than one year after the date of issuance.

One Percent Flood or 100 Year Flood
Has a 1% chance of occuring in a given year. Water District projects are usually designed for the 1% flood, a national standard established by the Federal Emergency Management Agency (FEMA).

Appendix E - Glossary

Operating Expenditure

Operating expenditures are system costs required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services.

Operating expenditures are costs necessary to maintain the systems in good operating condition. This includes the repair and replacement of minor property components. The American Waterworks Association (AWWA) says that these priority components should be smaller than a retirement unit; a retirement unit is a readily separable and separately useful item that is part of a larger assembly. The benefit and life of such repairs should be less than two years. Any repairs that recur on an annual basis are considered operating activities of a maintenance nature.

Operating expenditures are often separated into fixed and variable costs for purposes of understanding operating leverage and structuring service charge rates.

Operations

Expenditures required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services. Operations include work that is generally of an ongoing or recurring nature. Any District work that is not a project is, by definition, an Operation. Operations, although recurring, require close coordination and a high degree of management oversight; however, they can be accomplished without the application of the full range of tools and processes used for managing projects.

Projects

At the Santa Clara Valley Water District, a project is any undertaking which has (1) a beginning and an ending, (2) a one-time occurrence. Projects can require expenditure of capital or operating funds and, at the District, are called Capital or Operating Projects, accordingly. Project usually, but no always, relate to a District facility or facilities (a creek, a reservoir, a dam, a water treatment plant, a pipeline,, etc.). Projects may include studies, design, construction, maintenance, or implementation of systems such as Records Management or Financial Management System.

Revenue

Monies the District receives in exchange for services or sales provided. Revenue items include water sales, property tax revenues, benefit assessment revenues, interest income, intergovernmental reimbursement, and other.

Revenue Bonds

Bonds, whose principal and interest are payable exclusively from earnings of an enterprise fund. In addition to a pledge of revenues, such bonds sometimes contain a mortgage on the enterprise fund's property.

Reserve

An account used to indicate that a portion of a fund's assets are legally restricted for a specific purpose and is, therefore, not available for general appropriation.

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